

# Enclosure systems and accessories Klippon® Protect

Version 2025



**Weidmüller** 



# Enclosure systems and accessories

## Catalogue 5

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### Enclosure systems and accessories

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# Service and support

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# Introduction

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# Digitalisation presents you with many new challenges

## We will support you to master them

The social and economic changes being caused by digitalisation are also pushing industrial production towards new, data-based services that need to be integrated into the value creation chains in a profitable manner.

Our objective is to support you with the implementation of these new structures and processes right from the start, and to successfully accompany you on new paths in the Industry 4.0 era.

Thanks to the entire range of Weidmüller products, the use of our local production and assembly facilities, and our global sales network, we can lay the very best foundations for a successful partnership with you, our customer.



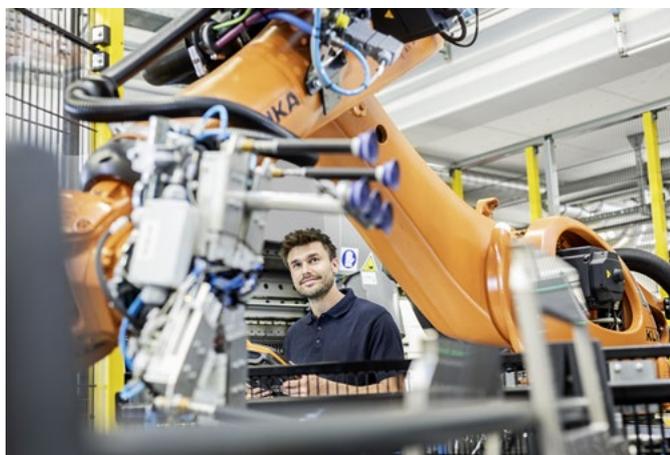
Whether decentralisation, modularisation, data consistency and transparency or the implementation of completely individual applications in the IoT environment: the factory of the future needs to be able to take on a wide variety of challenges.

With our Klippon® products and services, we have created innovative and future-oriented solutions while setting new standards for applications within a wide range of industries.



More information about our Klippon® products and services at [www.weidmueller.com/KlipponProtect](http://www.weidmueller.com/KlipponProtect)

**Dive into the Klippon® world and discover our innovative products and services.**



# Assembled terminal rails and enclosures supplied ready for installation Klippon® Assembly Service

The Klippon® Assembly Service supplies fully assembled terminal rails and enclosures that can be installed directly in the cabinet or on the machine. It therefore simplifies planning, accelerates production processes, reduces work steps and ensures the reliable delivery of individually assembled products.



# Product categories

## Rail Assemblies



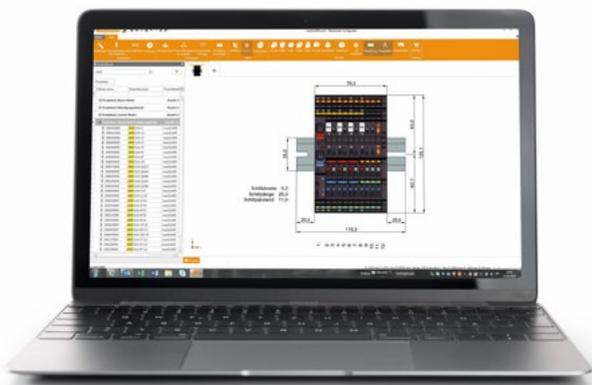
## Modified and assembled enclosures



# Professional engineering – the choice is yours!

### Configure yourself with the Weidmüller Configurator (WMC)

The WMC supports you in selecting and assembling your terminal rail or enclosure. Configuration is simple, safe and convenient because of user-friendly operation, distinct design and integration in your engineering workflows, from planning with E-CAD to documentation.



### Entrust the engineering to our experts!

Master more complex challenges together with our locally operating but globally networked team of experts consisting of industry managers and engineers. Bring along ideas that have already been developed or let us start together to define the best possible solution.



# Create competitive advantages



### Reduction of installation costs

The fully assembled rails and enclosures are supplied ready for installation - no need to procure and assemble individual components!



### Enabling growth potential

Use valuable resources for your core business! Leave the assembly of terminal rails and enclosures to us – this is how you create potential for growth!



### Streamlining of processes

Eliminate entire process steps, reduce the number of suppliers and article numbers and increase your efficiency!

## Efficient digital engineering

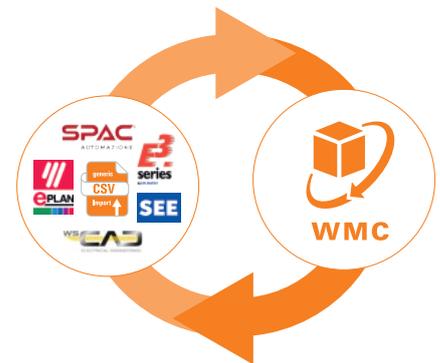
### Weidmüller Configurator (WMC) integrates E-CAD access and direct offer

#### The choice is yours

Within Klippon® Assembly Service the WMC supports you step-by-step as you select and configure your assembled terminal rails and an extensive range of enclosures, including accessories and further Weidmüller products. You decide whether you want to carry out the complete configuration in WMC or whether you want to import data sets from your E-CAD system and simply transfer them back again after making final adjustments in the WMC. Whichever way you decide to go, you will benefit from centralised documentation that is always up to date, you will avoid transmission errors and you will no longer have to share your sensitive data with a third party. Using STEP, the universal 3D CAD exchange format, you can now also export your WMC solution directly into your E-CAD system, ensuring complete data consistency in all your systems.

#### Your special advantages:

Configuration is simple, safe, and convenient because of user-friendly operation, distinct design, and integration in your engineering workflows from planning with E-CAD to documentation.



## Three reasons to start using the Weidmüller Configurator now:

### 1. Proven configuration designs in real 3D

Digital product information is based on the classification standard eCI@ss advanced. An integrated plausibility and collision control with full digital documentation ensure that your configuration is 100 % reliable.

### 2. Seamless E-CAD integration

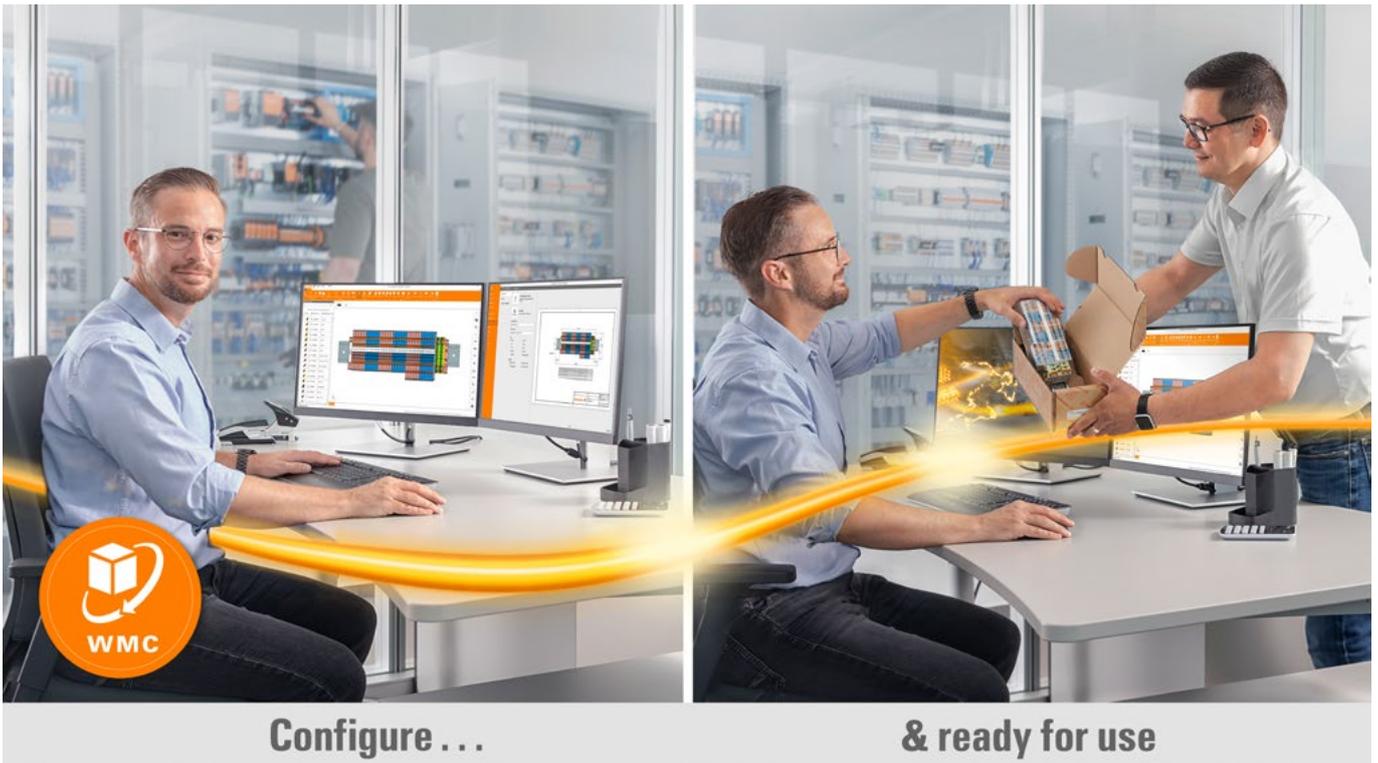
Integrated interfaces enable the simple exchange of product data between the WMC and all common engineering tools, such as Zuken E3, EPLAN ElectricP8 or ProPanel.

### 3. Interfaces for automated manufacturing

The WMC provides all necessary digital information for a full automation, such as subsequent assembly, marking with M-Print® PRO, and wiring. This is the key for the fast delivery service.



Configuration and ordering are simple with the Weidmüller Configurator  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)



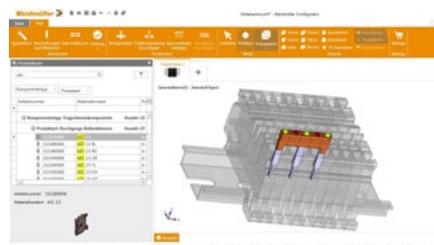
Configure ...

& ready for use



**Full engineering support**

The product data can be used in engineering systems such as EPLAN Electric P8 or Zuken E<sup>3</sup> series. 3D models are available for panel set-up.



**Helpful wizard system**

The intelligent wizard function documents every step in which a component is assembled and only allows permissible configurations. Mistakes are corrected automatically.



**Integrated request function**

The selected components can be requested directly – as individual components, pre-installed on a terminal rail, or as an assembled enclosure.

## Fast Delivery Service for assembled terminal rails and enclosures

### Produce faster with higher flexibility and efficiency

The Fast Delivery Service as a part of our Klippon® Assembly Service simplifies your planning, accelerates your production processes, and guarantees the delivery of individually assembled and ready-to-install terminal rails and enclosures. This way, you reduce costs, increase flexibility and stay one step ahead of your competitors.

#### Individual assembly in the Weidmüller Configurator

Our Weidmüller Configurator (WMC) supports you step-by-step as you select and configure your terminal rail or enclosures. You decide whether you want to carry out the complete configuration in the WMC or whether you want to import data sets from your E-CAD system and, after making final adjustments in the WMC, simply transfer them back again. The product categories below are available in the Weidmüller Configurator and can be assembled.



## Products available in the Weidmüller Configurator



#### Terminal Blocks

Up to 5000 different terminals can be selected from the Weidmüller Klippon® Connect portfolio to be assembled on a mounting rail.



#### Empty and assembled industrial enclosures

You can configure drilled and assembled industrial enclosures including terminal rails and cable entry systems.



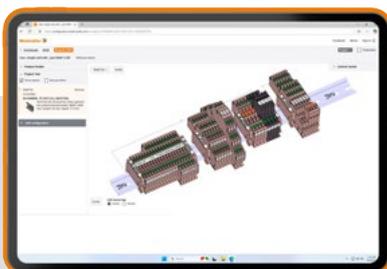
#### Assembled ex certified enclosures

In addition to industrial enclosures, ex-certified enclosures can also be assembled and drilled.



#### Power supplies and relays

Use the Weidmüller Configurator to pre-assemble products such as relays and power supplies on terminal rails.

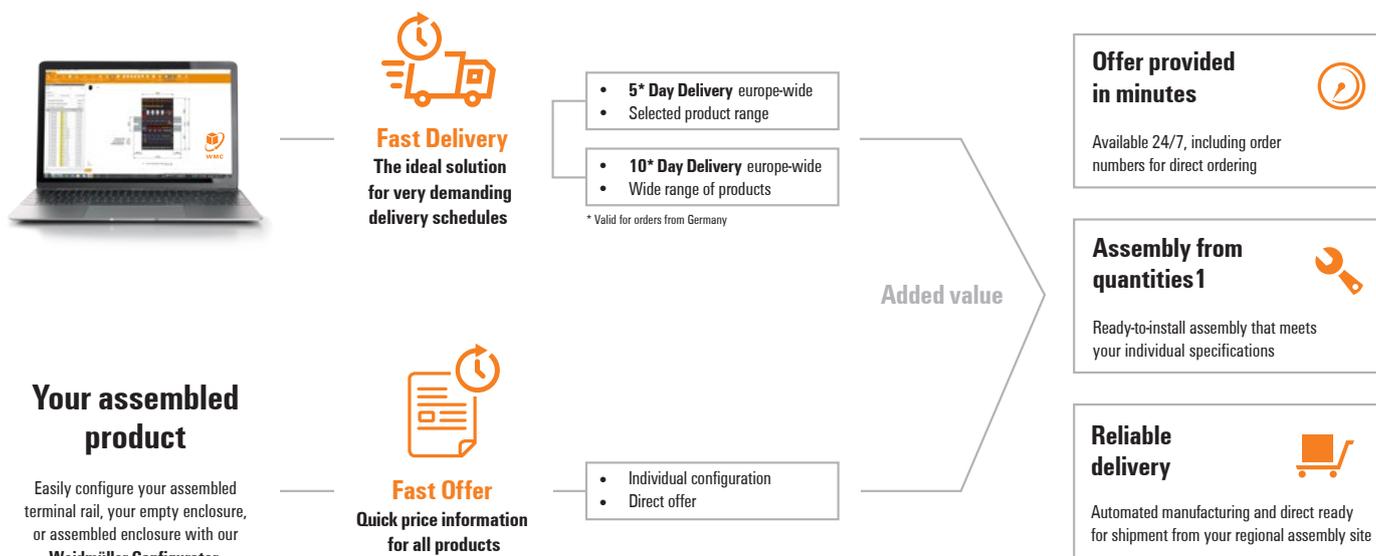


#### Online Weidmüller Configurator – From November 2025

The new online configurator extends the well-known Weidmüller Configurator (WMC) with a web-based version – perfect for configuring terminal rails. No installation required, directly accessible in any browser – anytime and anywhere.

# Determine your own delivery time thanks to Fast Delivery Service

## We offer the choice between 3 service levels



# In just three steps to your first order

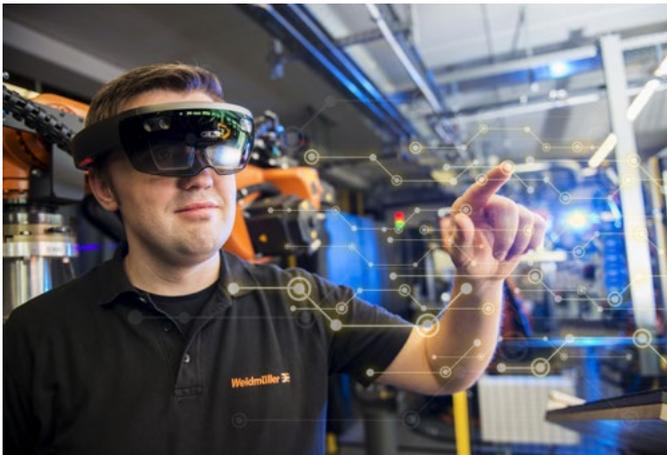
## Your easy start with our Fast Delivery Service



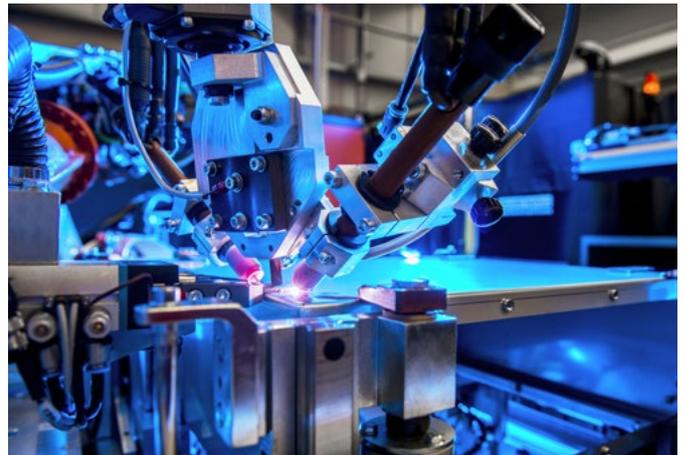
# Manufacturing expertise at the highest level

## Precision and reliability for your products

Our engineering and manufacturing expertise influences decisions in all areas of modern connection technology. It therefore plays an integral part of every solution. A variety of customised configurations can be constructed and produced at our worldwide assembly facilities according to individual requirements. All this based on maximum process and manufacturing reliability.



Continuous data management enables automated production and makes Industry 4.0 tangible.



Automated processes – here shown for our Klippon® TB enclosure range – ensures a reliable and consistent production process.



Whether you need modified products, pre-assembled terminal rails or complete devices for individual applications: we produce the solutions developed for your application quickly and flexibly.



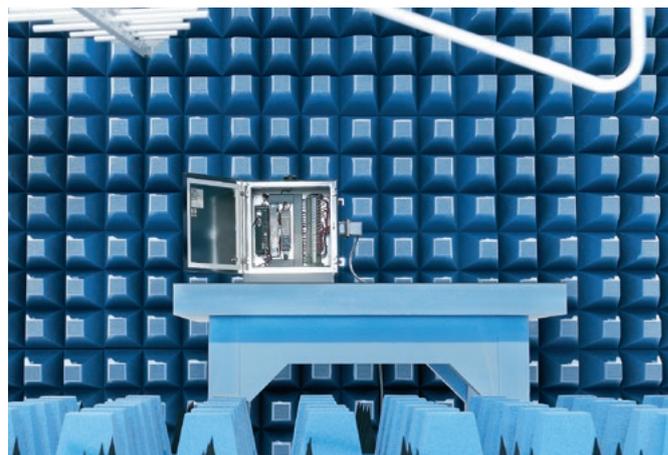
## When quality is the key

### You demand perfection – we take care of every detail

In the face of the international competition, you demand that all your equipment meets high safety, quality, and performance standards. Our products and services will support you to achieve these goals. We support you to advance new ideas that provide real value for your plant operation. After over 50 years of experience, we can determine the ideal combination of electrotechnical components which best suit your plant. We take into account your plant's specific conditions, including the local standards at its operation site. That's our definition of service.



Our laboratory assures the high quality and functionality of products.



Right from the start, we check exactly which components, materials, and systems are suitable for your application.



With our state-of-the-art processing technology, we ensure the highest quality during production and assembly.



We guarantee fast, quality-orientated production and order-ready product availability.

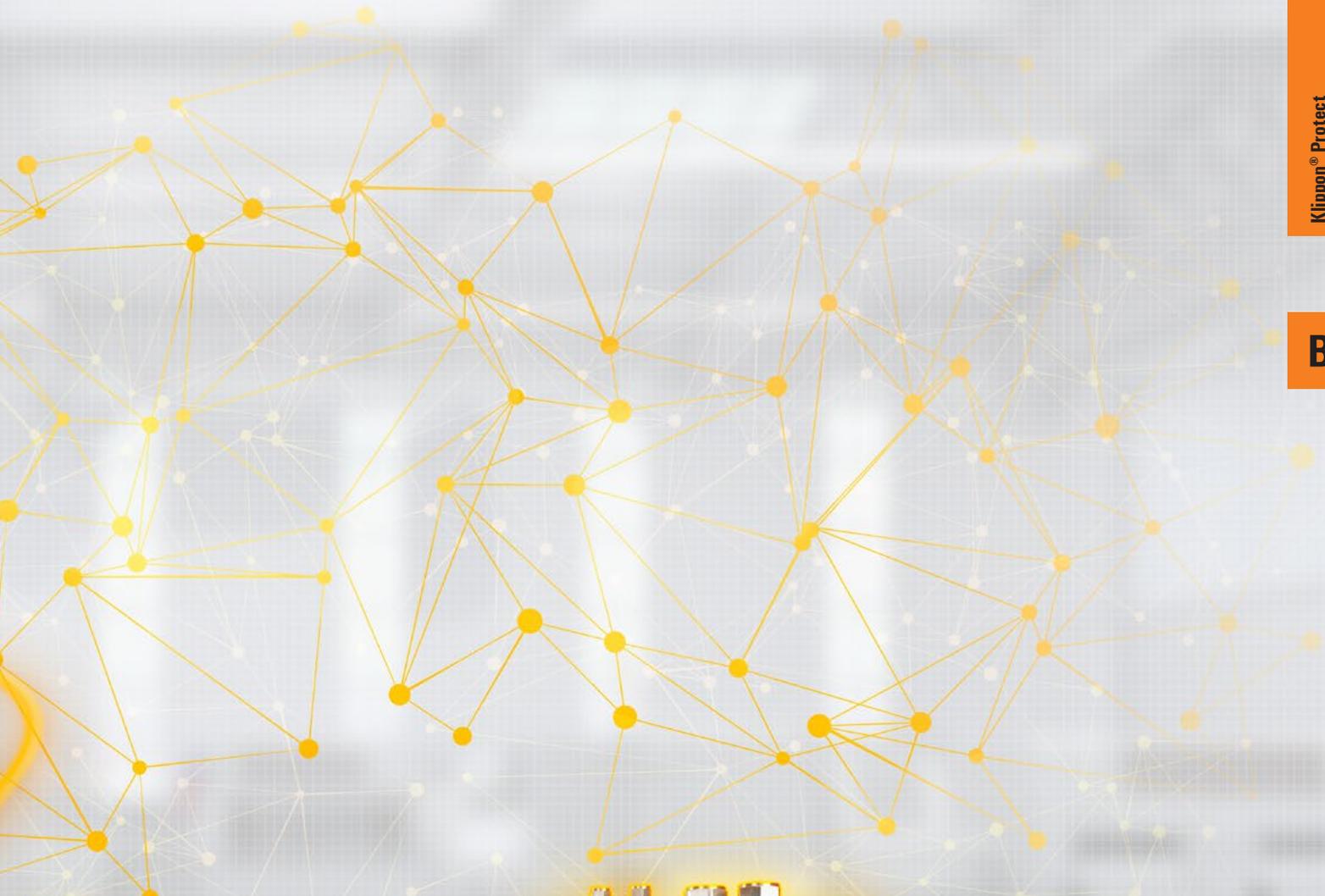


# Klippon® Protect

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# KLIPPON® PROTECT





# Klippon® Protect universal enclosure

## Functional - For the highest demands

### B

We designed the Klippon® Protect enclosure ranges to satisfy the extraordinary protection requirements for field applications. They provide outstanding high-performance features that satisfy the toughest demands within every industry and every application. The universal enclosures Klippon® Protect are made of stainless steel, aluminium, or plastic. Either one guarantees excellent protection for your assembly. With these robust enclosures, you can implement various field applications to suit your requirements. The matching system accessories enable simple integration, expansion, and customisation.

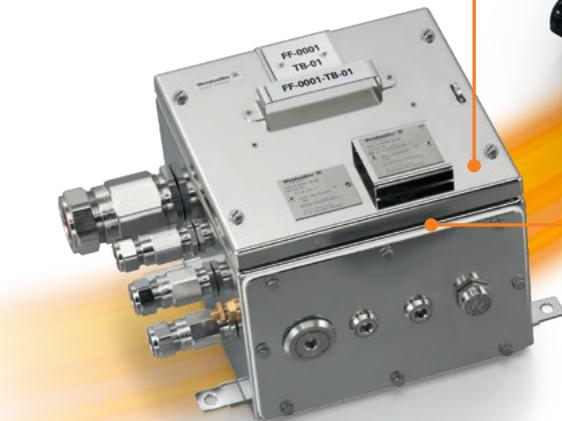
#### Your special advantages:

- Outstanding performance even in extreme environmental conditions
- Robust and secure for maximum protection requirements
- Approved based on the latest international quality and safety standards



#### Reliable protection

The Klippon® TB has an integrated duct keeping contamination and moisture from penetrating when the enclosure is open. The outer earthing bolt is equipped with an IP67-certified seal mechanism and is protected against accidental rotation.



#### Temperature and sealing characteristics

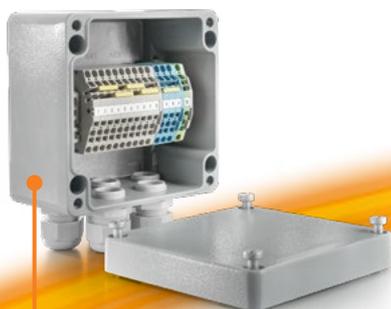
All Klippon® TB and Klippon® STB enclosures are equipped with a silicone seal. It protects applications in extreme temperature conditions.





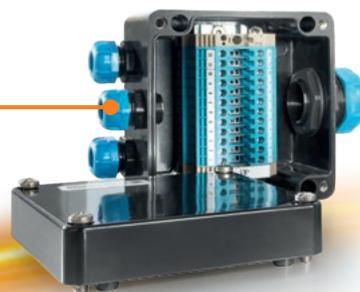
**Versatile lid design**

The TBF, FPC and MPC enclosures are available with either transparent or grey lids.



**High IP protection**

The Klippon® K aluminium enclosures are equipped with fully closed seals without adhesive points. The seal ensures an IP protection level from IP66 and up to IP68 – subject to use.



**Closed moulded gaskets**

The Klippon® POK polyester enclosures gaskets are made of either silicone or chloroprene. The robust and secure sealing enhances ingress protection and increases the performance of each enclosure.



**Robust for harsh environments**

The Klippon® EBi series for industrial areas is characterized by attractive performance features such as rain gutter and pressure control and allows a very cost-efficient calculation.



**Cable Glands and Cable Entry Systems: perfectly fulfilling your application needs**

We offer a variety of add-on components such as cable glands for a multitude of purposes and applications in addition to our extensive Klippon® Protect range. The supplementary cable entry system Cabtite allows connecting a pre-assembled cable to an installation enclosure or cabinet.

# Klippon® Protect application enclosure

## At home in your markets

### B

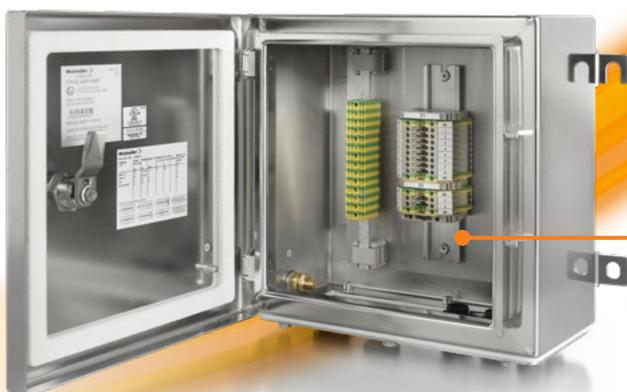
The Klippon® Protect solutions offer a wide range of standard industrial applications and explosive environments applications. The following overview of our Klippon® Protect range will give you an insight into its possibilities, including finding an individual solution.

#### Application range

Our Klippon® Protect application range provides solutions for monitoring and safety, measurement and control technology, and power distribution. These application solutions are based on high quality and comprehensive approvals for explosive risk zones.

#### Your special advantages:

- Consistent enclosure design for a wide range of applications
- Various standard solutions for maximum safety, reliable functionality and low follow-up costs
- Certified for potentially explosive atmospheres and standard industrial applications



#### Power distribution boxes and interfaces

In a complex environment, the efficient and reliable distribution of electrical energy requires optimally designed interface solutions that respond to the special features of the application. Our high-current terminal solutions offer an excellent interplay with our certified terminals with weather-resistant Klippon® Protect enclosures.

**Monitoring and Safety**

Through the assembly of units, we provide a myriad of monitoring and safety solutions; including proximeters for vibration measurement, temperature transmitters for monitoring of operating temperature, and eddy current sensors for non-contact distance measurement chains.



Klippon® Protect

B

**Measurement and Control systems**

Tailored to your respective requirements, control devices and status displays can be combined with various electronic components. You receive a turnkey plug-and-play solution – including all required approvals.



**Harmonisation – the key to market success**

Klippon® Protect is individually tailored to meet the changing and extremely harsh environments of the different industries. Certified to international standards, they also meet the latest ATEX and IECEx regulations for potentially explosive atmospheres in process industries. They have certifications for use in various standard industrial applications, such as automation, railway, transportation, and energy.

## Benefit from innovative automation concepts as a success factor Klippon® products for better performance and more efficient processes

### B

The advancing digitalisation of industrial manufacturing processes places ever higher demands on automation technology. Decentralised systems with high flexibility and easy operation are trend. System design, installation process, and plant operation are becoming more complex.

Klippon® products and services are optimally adapted to the requirements of modern automation concepts. They combine highest quality with excellent flexibility and performance – and thus become an integral part of your automation solutions. In the versatile Klippon® product portfolio you will find everything you need to optimise your production systems. The choice is yours.

#### Your special advantages:

- Wide range of products and services for every application
- Optimised for convenient planning, simple installation and efficient maintenance
- Highest product quality for reliable function and high durability
- Tested safety and conformity to standards
- Perfectly suited for flexible, decentralised automation concepts





**Klippon® K**  
 Klippon® K aluminium enclosures ensure a high level of system availability as well as the quick commissioning of your machines. Excellent shock, vibration, and temperature resistance combined with corrosion-resistant materials and surfaces make these enclosures particularly secure and long-lasting.



**Klippon® EBi**  
 Klippon® EBi stainless steel enclosures are suitable for both indoor and outdoor use, and can be combined with Klippon® Connect and Klippon® Protect components. They are extremely corrosion resistant and insensitive to dust and spray water. Ideally suited to the decentralised control of your system.



**Cabtite**  
 The Cabtite cable management system allows quick cabling adjustment in the event of system modifications or during service and maintenance work. Modular components guarantee maximum flexibility while simultaneously ensuring a high level of protection.

# Create real added value for railway applications

## Klippon® Protect enclosure solutions for trains, track systems, and signalling equipment

## B

In critical applications such as the railway industry, safety and reliability play a decisive role. With Klippon® Protect, we as experts in the transmission of power, signals and data in industrial environments offer optimal enclosure solutions for state-of-the-art systems for production, power generation and railway engineering. We work closely with our customers to optimise their distribution of power, signals and data, to promote their digital transformation or to support them in the development of new business models.

### Customised development at the highest level

Our team of experts work with you to develop customised solutions that meet the high demands of the railway industry. We are on hand to assist you in everything from application consulting to solution-oriented development and certification to IRIS-qualified project management. This makes Weidmüller your competent partner for demanding railway applications.

### Your special advantage:

- Vibration and shock-resistant components
- Compliance with all relevant railway standards
- IRIS-certified project management
- Solution-oriented development with a professional project team



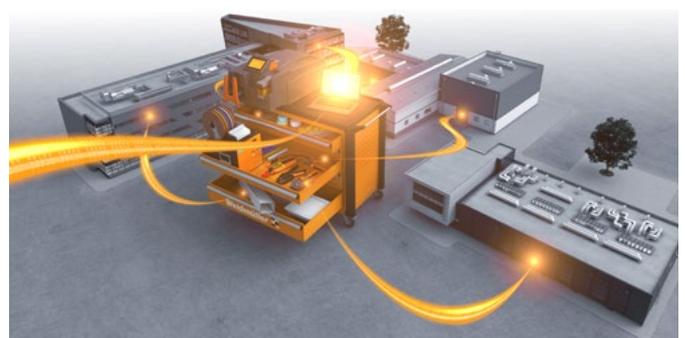
**Digital transformation**  
IoT for railway applications



**Secure electrical interfaces**  
Customised solutions for trains and routes



**Flexible power distribution**  
Efficient solutions for railway vehicles



**Workplace solutions**  
Optimised processes in panel building



#### Customised solutions for power distribution

We develop customer-specific solutions based on our extensive portfolio. These include the robust Klippon® enclosures and the tried-and-tested terminals of the W and HV series, which can withstand high mechanical loads. All solutions are certified according to current railway standards and are resistant to vibrations, shocks and climactic influences.



#### Klippon® Fire Rated Box

Our robust terminal boxes for the safe supply of power to emergency systems in case of fire. In accordance with DIN 4102-12, they ensure the further functioning, for example, of emergency lighting or tunnel ventilation systems for up to 90 minutes. The assembled enclosures of the Klippon® POK and Klippon® STB series are particularly suitable for locations requiring corrosion resistance, impact resistance and high protection classes.



#### Klippon® Railway

Our optimal enclosure solutions for use in tunnels and trains and on tracks. The new certified Klippon® Railway portfolio is the perfect basis for customised solutions. With this product range as a basis, our team of international experts can realise customer-specific projects especially quickly and efficiently.

## Comply with international standards in the energy supply sector

### Efficient and safe solutions with Klippon®

#### B

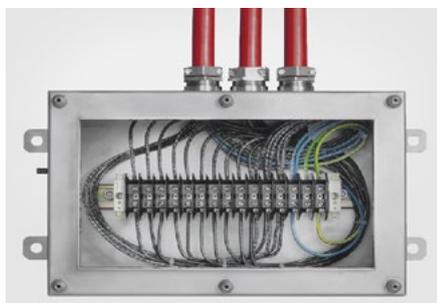
Alongside renewable energies such as wind and solar, the generation of energy from gas, coal and nuclear power will remain a key part of the world's energy mix for a long time to come. Our range of products therefore also features solutions for the specific requirements of the traditional energy sector.

With our complete solutions for all types of energy generation and supply, we can help you to guarantee the safe and reliable operation of your systems while also ensuring maximum availability. We provide you with the right Klippon® products for industrial solutions, harsh environments, explosive risk zones and safety-relevant applications – naturally with all of the market-specific certifications and approvals.

#### Your special advantages:

- International approvals and certifications
- Modified products for industry-specific requirements
- High resistance to weathering and corrosion
- Resistance to vibration, shock, and climatic conditions
- Compliance with explosion protection guidelines





#### Customer-specific solutions

Klippon® products are modified, assembled and approved in line with the respective sector. They comply with all of the required standards and guidelines on explosion protection and are resistant to vibrations, shock, and climatic conditions. For safe use in containment or non-containment areas.



#### Robust plastic enclosure

Klippon® plastic enclosures are extremely resistant to weather and corrosion, making them perfectly suited for use in the photovoltaic sector. International approvals and standards guarantee maximum security.



#### Intelligent accessories

Cable glands in protection classes IP54 to IP66, IP67 and IP69K are available as accessories. These cable glands are suitable for the most diverse applications and also cover high temperature ranges.

# Safely control work processes in hazardous areas on site

## Certified Klippon® Protect control and display elements

### B

Global demand for energy sources is on the rise. This presents a range of new challenges for the process industry: from research into new energy sources through to their processing and consumption.

Klippon® products satisfy these requirements with innovative technologies and active safety concepts. They ensure secure connections between the interfaces for different areas and guarantee safe, effective, and sustainable operation within the processes. Klippon® Protect control and display elements support all areas of automation within the process industry.

#### Your special advantages:

- Innovative control and display elements for an extremely wide range of automation applications
- Robust enclosure solutions with comprehensive protection for the assembled components
- Convenient independent engineering with the Weidmüller Configurator
- Professional advice during the engineering process on request
- Certified products that comply with the latest local and international standards including ATEX and IECEx.





#### Klippon® Control Station

The robust "on-site control station" is available in customer-specific optimised versions, with different enclosure materials and assembled components. Perfect for individual project solutions with international approvals for explosive risk zones.



#### Klippon® TB

The robust enclosures with electro-polished surfaces are perfectly suited to harsh environments, e.g. for use as distributor enclosures in offshore, food and beverage applications. The sealing system can withstand high operating temperatures and offers IP66/67 protection against moisture and dust.



#### Klippon® Assembly Service

The Klippon® Assembly Service supplies fully assembled rails and enclosures that can be installed directly in the control cabinet or on the machine. It therefore simplifies development, accelerates production processes, reduces work steps and ensures the reliable delivery of individually assembled products.

# Increase efficiency and reliability in shipbuilding

## Robust enclosure solutions with Klippon® Protect

### B

Mobility plays a central role in our globalised world. As a result, the movement of people and goods between continents is becoming increasingly important. Maritime transport in particular faces the challenge of offering maximum performance at low prices. To meet this requirement, efficient and reliable solutions are in ever greater demand in the shipbuilding industry. We support the maritime transport of the future with a broad portfolio of safe connection solutions and individually configurable components for every need. Our products and solutions are certified according to current industry standards. They are produced using cutting-edge manufacturing processes and stand for quality, durability and reliability.

#### Your special advantage:

- Particularly robust and durable solutions
- Future-proof thanks to certification according to the latest industry standards
- Resistant to a wide range of external influences
- Optimally suited for harsh environments
- Versatile use





**Klippon® K**

Our robust and resistant enclosures offer IP protection classes from IP66 to IP68 – depending on the requirements. The customer-specific production in our Application Centers ensures quick assembly and a low risk of failure.



**Klippon® STB**

Extremely stable and corrosion-resistant, Klippon® STB enclosure solutions offer reliable protection for equipment and control components – even in the harsh environments typical for the rail and shipping industries. Optimal sealing properties allow use in a broad temperature range of between -60 °C to +100 °C.



**Fast delivery service**

Quotations in a manner of minutes, all articles numbers at a glance, articles for immediate order, available 24 hours a day every day. The planning and configuration of terminal strips and enclosures with the Weidmüller Configurator (WMC) are the key to efficient and consistent processes.



# Enclosures

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# Metal enclosures



	<b>Klippon® TB MH</b>	<b>Klippon® TB QL</b>	<b>Klippon® EBi QL</b>	<b>Klippon® EBi HS</b>	<b>Klippon® TB Large</b>
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material Specification	Stainless steel 1.4404 (316L), enclosure 1.50 mm	Stainless steel 1.4404 (316L), enclosure 1.50 mm	Stainless steel 1.4301 (304)	Stainless steel 1.4301 (304)	Stainless steel 1.4404 (316L), enclosure min. 2,0 mm
Sea water resistance	very good	very good	very good	very good	good
UV resistance	very good	very good	very good	very good	very good
Halogen free / cadmium free	x / x	x / x	x / x	x / x	x / x
Surface finish	electropolished	electropolished	untreated	untreated	Brushed
Intended use	Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry	Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry	Machine construction, transport, power	Machine construction, transport, power	Explosive hazard areas, oil and gas industry, chemical industry, process industry, Industry, infrastructure
<b>Dimensions</b>					
H x W x D (min.) in mm	229x152x133	229x152x133	200x200x150	200x200x150	1000x500x300
H x W x D (max.) in mm	980x740x200	980x740x200	800x600x200	800x600x200	1500x1000x500
Geometry	3 standard depths	3 standard depths	2 standard depths	2 standard depths	3 standard depths
<b>Specific characteristics</b>					
Gland plates	0,1,2,3,4	0,1,2,3,4	0,1	0,1	1
Type of gasket	Flat gasket	Flat gasket	Flat gasket	Flat gasket	Foamed gasket and flat gasket for flange plates
Seal material	Silicone	Silicone	Chloroprene	Chloroprene	Silicone
Enclosure attachment	4 or 6 mounting feet with 11 mm hole size	4 or 6 mounting feet with 11 mm hole size	Direct mounting (9 mm mounting holes on rear wall) or via mounting feet (optionally available)	Direct mounting (9 mm mounting holes on rear wall) or via mounting feet (optionally available)	4 or 6 welded mounting feet with 14 mm hole size
Installation mounting	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	Several M8 mounting bolts
Temperature range	-60 °C...+135 °C (IP66) -60 °C...+105 °C (IP67)	-60 °C...+135 °C	-40 °C...+85 °C	-40 °C...+85 °C	-50 °C...135 °C
Impact resistance	IK 09 (10J) in accordance with DIN EN 50102 / 7J in accordance with IEC 60079-0	IK 09 (10J) in accordance with DIN EN 50102 / 7J in accordance with IEC 60079-0	IK 09 (10J) in accordance with DIN EN 50102	IK 09 (10J) in accordance with DIN EN 50102	IK 09 (10J) in acc. with DIN EN 50102 / 7J in acc. with IEC 60079-0
IP - protection class	IP66, IP67 /	IP66 /	IP66	IP66	IP66 /
NEMA protection class	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 12			Nema 3, Nema 4x, Nema 5
Flammability rating					UL94 V0
Surface resistance (in ohms)					
<b>Approvals</b>					
ATEX	x	x			x
AEx	x	x			x
CCOE / INMETRO	x / x	x / x			- / x
cULus	x	x			x
IECEX	x	x			x
CCC / KOSHA	x / x	x / x			x / -
LR / DNV	- / x	- / x			- / x
<b>Configuration</b>					
	Lid hinges Removable lid Gland plates Welded mounting feet Fitting for a padlock	Lid hinges Gland plates Welded mounting feet Quarter lock	Lid hinges Gland plates Direct mounting, Optional mounting feet Quarter lock	Lid hinges Gland plates Direct mounting, Optional mounting feet	Lid hinges Removable lid Gland plates Welded mounting feet



	Klippon® STB		Klippon® K	
Material	Stainless steel	Sheet steel	Aluminium	
Material Specification	Stainless steel 1.4404 (316L) 1.50 mm	Powder-coated steel sheet 1.0330	High quality aluminium alloy (Al-Si12)	
Sea water resistance	very good	good	good	
UV resistance	very good	insufficient	very good	
Halogen free / cadmium free	x / x	x / x	x / x	
Surface finish	electropolished, Mirror-polish	powder-coated	neutral, powder-coated	
Intended use	Ex areas, packing industry, railways, shipping, process industry	Packing industry, railways, shipping, process industry	Ex-areas, process industry, transport, railways, shipping, port facilities, packaging, mechanical engineering	
<b>Dimensions</b>				
H x W x D (min.) in mm	120x120x80		50x45x30	
H x W x D (max.) in mm	250x400x130		310 x 400 x 180	
Geometry	5 standard depths		14 standard depths	
<b>Specific characteristics</b>	<b>Ex-version</b>	<b>Industrial version</b>	<b>Ex-version</b>	<b>Industrial version</b>
Gland plates	none	none	none	none
Type of gasket	Flat gasket	Flat gasket	Shaped gasket	Shaped gasket
Seal material	Silicone	Silicone	Silicone	Chloroprene, Silicone
Enclosure attachment	External holders with 8 mm holes	External holders with 8 mm holes	4 holes for M4 to M6 screws	4 holes for M4 to M6 screws
Installation mounting	20 mm C-rail welded to the enclosure	20 mm C-rail welded to the enclosure	M4 to M6 threaded holes	M4 to M6 threaded holes
Temperature range	-60 °C...+100 °C	-60 °C...+120 °C	-60 °C...+135 °C	-40 °C...+80 °C (CR); -60 °C...+135 °C (VMQ)
Impact resistance	7J in accordance with IEC 60079-0	IK 09 (10J) in accordance with DIN EN 50102	7J in accordance with IEC 60079-0	IK 09 (10J) in accordance with DIN EN 50102
IP - protection class	IP66 /	IP66	IP66, IP67 /	IP66, IP67, IP68 /
NEMA protection class	Nema 4, 4x		Nema 4x	Nema 4x
Flammability rating				
Surface resistance (in ohms)				
<b>Approvals</b>				
ATEX	x		x	
AEx	x			
CCOE / INMETRO	- / x			
cULus	x			x
IECEX	x		x	
CCC / KOSHA	- / x			
LR / DNV	x / -	x / -	- / x	- / x
<b>Configuration</b>				
	TAS 20 C-profile rail Welded mounting feet Earth studs in enclosure lid and base		Internal earthing screw in the enclosure base an external earth stud	internal earthing screw in the enclosure base

# Plastic enclosures



	Klippon® POK		TBF	MPC	FPC
Material	Polyester		Polyester	Polycarbonate	Polycarbonate
Material Specification	Glass-fibre reinforced polyester in accordance with DIN 16913		Glass-fibre reinforced polyester, polycarbonate transparent cover		
Sea water resistance	very good		very good	very good	very good
UV resistance	good		good	good	good
Halogen free / cadmium free	x / x		x / x	x / x	x / x
Surface finish	Grey (industrial version), Black (Ex version)		grey	grey	grey
Intended use	Ex-areas, energy production, transportation, process industries, port facilities, railway industry		Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry	Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry	Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry
<b>Dimensions</b>					
H x W x D (min.) in mm	75x80x55		186x151x140	125x75x75	200x200x132
H x W x D (max.) in mm	250x600x120		603x603x175/210	250x175x150	600x400x132
Geometry	5 standard depths		3 standard depths	4 standard depths	1 standard depth
<b>Specific characteristics</b>	<b>Ex version (black)</b>	<b>Industrial version (grey)</b>			
Gland plates	none	none	none	none	none
Type of gasket	Shaped seal	Shaped seal	O-ring	Foam seal	Foam seal
Seal material	Silicone	Chloroprene	Polyurethane	Polyurethane	Polyurethane
Enclosure attachment	4 holes for M4 to M6 screws	4 holes for M4 to M6 screws	4 holes or external mounting brackets (accessory)	4 holes or external mounting brackets (accessory)	4 holes or external mounting brackets (accessory)
Installation mounting	M4 to M6 threaded holes	M4 to M6 threaded holes	4 or 6 clamping screws M4	Self-tapping screws	Self-tapping screws
Temperature range	-55 °C...+100 °C	-40 °C...+100 °C	-50 °C...+130 °C (Continuous temperature max. 70 °C) (grey); -35 °C ...+120 °C ((Continuous temperature max. 70 °C) (transparent)	-50 °C...+100 °C (grey); -40 °C...+60 °C (transparent)	-50 °C...+100 °C (grey); -40 °C...+60 °C (transparent)
Impact resistance	7J in accordance with IEC 60079-0	IK 08 (5J) in accordance with DIN EN 50102	IK08 (5J) in accordance with IEC 62208, IK10 (20J) in accordance with IEC 62262	IK 08 in accordance with EN 60529	IK 08 in accordance with EN 60529
IP - protection class	IP66	IP66	IP66 (transparent lid) IP67 (grey lid)	IP66, IP67	IP66, IP67
Flammability rating	UL94 V0	UL94 V0, HL 3 acc. to EN 45545-2 on request	UL94 HB (grey), V2 (transparent)	V2	V2
Surface resistance (in ohms)	<10 <sup>9</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>16</sup>	10 <sup>16</sup>
<b>Approvals</b>					
ATEX	x				
AEx	x				
CCE / INMETRO					
cULus	x	x			
IECEX	x				
NEPSI / KOSHA	- / x				
LR / DNV	x / x	x / x			
<b>Configuration</b>					
	Fastening screws for the mounting plate		grey or transparent lid	grey or transparent lid	grey or transparent lid

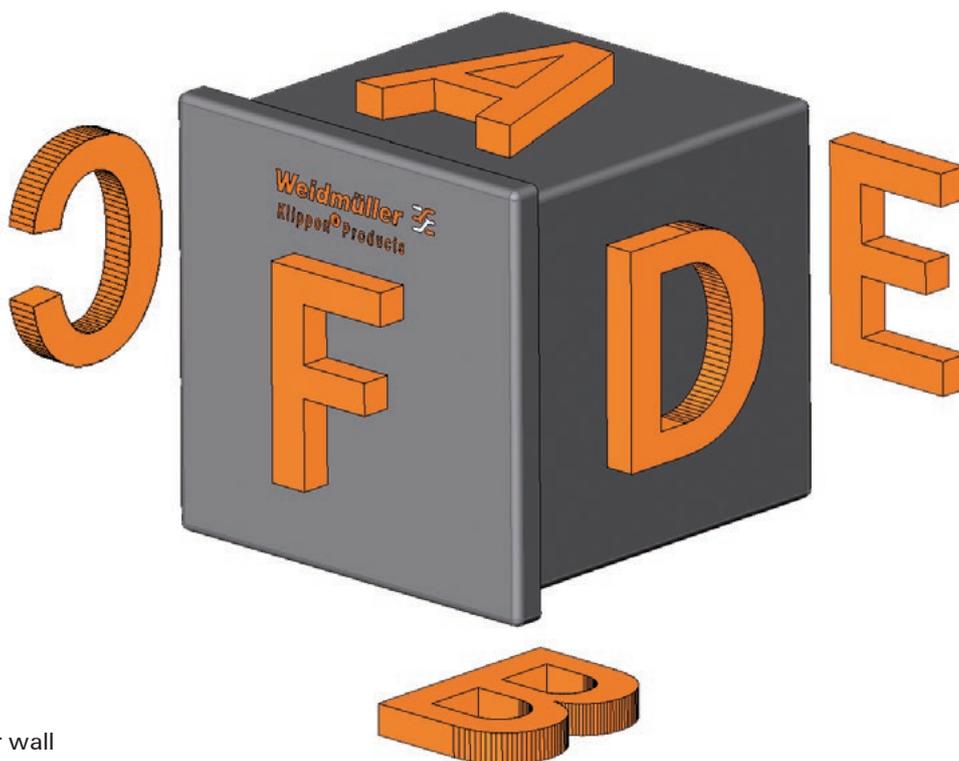
## Drawing design – For chapter C

The drawings contained in chapter C are constructed in the following way.

To identify the enclosure side views, these are marked with the letters A, B, C, D, E, and F. The schematic 3D representations shown underneath are of an enclosure that has been wall mounted.

- F** shows the view of the enclosure lid (front aspect),
- E** shows the interior surface of the enclosure (rear wall of the enclosure with the cover removed).
- A** shows the view of the enclosure from above and
- B** the view of the enclosure from underneath.
- C** shows the left and
- D** the right side of the enclosure.
- E** is the front view of the enclosure interior with the cover removed (enclosure rear wall).

You can find the dimensions of the enclosure sides for all enclosure sizes in each drawing.



- A** = Top
- B** = Bottom
- C** = Left
- D** = Right
- E** = Enclosure rear wall
- F** = Enclosure lid

# Overview of dimensions

## Klippon® TB MH – Multi Hinge / Klippon® TB QL – Quarter Lock

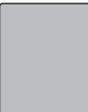
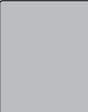
Page C.12

		Dimensions in mm Height x width x depth
	Klippon® TB MH Klippon® TB QL	229 x 152 x 133
	Klippon® TB MH Klippon® TB QL	260 x 260 x 150
	Klippon® TB MH Klippon® TB QL	260 x 260 x 200
	Klippon® TB MH Klippon® TB QL	306 x 203 x 150
	Klippon® TB MH Klippon® TB QL	306 x 306 x 150
	Klippon® TB MH Klippon® TB QL	306 x 306 x 200
	Klippon® TB MH Klippon® TB QL	350 x 260 x 150
	Klippon® TB MH Klippon® TB QL	350 x 260 x 200
	Klippon® TB MH Klippon® TB QL	350 x 350 x 200
	Klippon® TB MH Klippon® TB QL	400 x 300 x 150
	Klippon® TB MH Klippon® TB QL	400 x 300 x 200
	Klippon® TB MH Klippon® TB QL	406 x 406 x 200
	Klippon® TB MH Klippon® TB QL	458 x 382 x 150
	Klippon® TB MH Klippon® TB QL	458 x 382 x 200
	Klippon® TB MH Klippon® TB QL	480 x 480 x 150
	Klippon® TB MH Klippon® TB QL	480 x 480 x 200
	Klippon® TB MH Klippon® TB QL	508 x 406 x 200
	Klippon® TB MH Klippon® TB QL	550 x 350 x 150
	Klippon® TB MH Klippon® TB QL	550 x 350 x 200

**Note** Additional enclosure sizes available on request.

## Klippon® TB MH – Multi Hinge / Klippon® TB QL – Quarter Lock

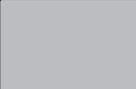
Page C.12

		Dimensions in mm Height x width x depth
	Klippon® TB MH Klippon® TB QL	620 x 450 x 150
	Klippon® TB MH Klippon® TB QL	620 x 450 x 200
	Klippon® TB MH Klippon® TB QL	620 x 508 x 200
	Klippon® TB MH Klippon® TB QL	620 x 620 x 200
	Klippon® TB MH Klippon® TB QL	760 x 620 x 150
	Klippon® TB MH Klippon® TB QL	762 x 508 x 150
	Klippon® TB MH Klippon® TB QL	762 x 508 x 200
	Klippon® TB MH Klippon® TB QL	914 x 610 x 200
	Klippon® TB MH Klippon® TB QL	980 x 740 x 200

**Note** Additional enclosure sizes available on request.

## Klippon® TB MH – Multi Hinge

Page C.12

		Dimensions in mm Height x width x depth
	Klippon® TB MH	350 x 550 x 200
	Klippon® TB MH	450 x 620 x 200
	Klippon® TB MH	508 x 762 x 200

**Hinweis:** QL- und FS-Varianten gibt es für diese Größen nicht. Weitere Gehäusegrößen auf Anfrage.

## Klippon® TB Large QL - Quarter Lock

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		Dimensions in mm Height x width x depth
	Klippon® TBL QL	1000 x 500 x 300
	Klippon® TBL QL	1250 x 800 x 400
	Klippon® TBL QL	1500 x 1000 x 500

Hinweis:

Weitere Gehäusegrößen auf Anfrage.

Klippon® EBi QL – Quarter Lock /  
Klippon® EBi HS – Hinged Screws

Page C.62

		Dimensions in mm Height x width x depth
	Klippon® EBi QL Klippon® EBi HS	200 x 200 x 150
	Klippon® EBi QL Klippon® EBi HS	300 x 200 x 150
	Klippon® EBi QL Klippon® EBi HS	300 x 300 x 150
	Klippon® EBi QL Klippon® EBi HS	300 x 300 x 200
	Klippon® EBi QL	300 x 400 x 200
	Klippon® EBi QL Klippon® EBi HS	400 x 300 x 200
	Klippon® EBi QL Klippon® EBi HS	400 x 400 x 200
	Klippon® EBi QL Klippon® EBi HS	500 x 400 x 200
	Klippon® EBi QL Klippon® EBi HS	500 x 500 x 200
	Klippon® EBi QL Klippon® EBi HS	600 x 400 x 200

Note

Additional enclosure sizes available on request.

Klippon® EBi QL – Quarter Lock /  
Klippon® EBi HS – Hinged Screws

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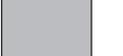
		Dimensions in mm Height x width x depth
	Klippon® EBi QL Klippon® EBi HS	600 x 600 x 200
	Klippon® EBi QL Klippon® EBi HS	800 x 600 x 200

Note

Additional enclosure sizes available on request.

## Klippon® STB

Page C.96

		Dimensions in mm Height x width x depth
	1.4404 (316L), mirror polished	120 x 120 x 80
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	150 x 120 x 80
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	150 x 150 x 90
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	190 x 150 x 90
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	190 x 190 x 100
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	250 x 250 x 120
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	160 x 380 x 120
	1.4404 (316L), electropolished	
	MS RAL 7032	
	1.4404 (316L), mirror polished	250 x 400 x 130
	1.4404 (316L), electropolished	
	MS RAL 7032	

Information on the net weight of the enclosures can be found in the online catalogue. MS: Mild steel

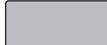
# Overview of dimensions

Klippon® K Page C.100

		Dimensions in mm Height x width x depth
	unpainted (S) unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	45 x 50 x 30
	unpainted (S) unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	64 x 58 x 34
	unpainted (S) unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	64 x 98 x 34
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	70 x 70 x 45
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	80 x 75 x 57
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	70 x 100 x 45
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	80 x 125 x 57
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	70 x 165 x 45
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	80 x 175 x 57
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	80 x 250 x 55
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	82 x 130 x 72

Information on the net weight of the enclosures can be found in the online catalogue.

Klippon® K Page C.100

		Dimensions in mm Height x width x depth
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	120 x 122 x 81
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	140 x 140 x 81
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	130 x 170 x 90
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	120 x 220 x 81
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	160 x 160 x 91
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	160 x 200 x 100
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	160 x 260 x 91
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	160 x 350 x 100
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	230 x 280 x 111
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	230 x 330 x 181

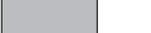
Information on the net weight of the enclosures can be found in the online catalogue.

## Klippon® K Page C.100

		Dimensions in mm Height x width x depth
	unpainted Ex (S) unpainted (CR) unpainted (S) RAL 7001 Ex (S) RAL 7001 (CR) RAL 7001 (S)	312 x 404 x 181

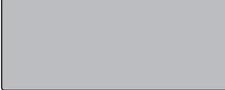
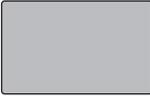
Information on the net weight of the enclosures can be found in the online catalogue.

## Klippon® POK Page C.126

		Dimensions in mm Height x width x depth
	RAL 7001 RAL 9011	75 x 80 x 56
	RAL 7001 RAL 9011	75 x 110 x 55
	RAL 7001 RAL 9011	75 x 160 x 55
	RAL 7001 RAL 9011	75 x 190 x 55
	RAL 7001 RAL 9011	75 x 230 x 55
	RAL 7001 RAL 9011	120 x 122 x 91
	RAL 7001 RAL 9011	120 x 220 x 91
	RAL 7001 RAL 9011	160 x 160 x 91
	RAL 7001 RAL 9011	160 x 260 x 91
	RAL 7001 RAL 9011	160 x 360 x 91
	RAL 7001 RAL 9011	160 x 560 x 91
	RAL 7001 RAL 9011	250 x 255 x 121
	RAL 7001 RAL 9011	250 x 400 x 121

Information on the net weight of the enclosures can be found in the online catalogue.

## Klippon® POK Page C.126

		Maße [mm] Höhe x Breite x Tiefe	Gewicht [g]
	RAL 7001 RAL 9011	250 x 600 x 121	
	RAL 7001 RAL 9011	405 x 400 x 121	
	RAL 7001 RAL 9011	250 x 255 x 161	
	RAL 7001 RAL 9011	250 x 400 x 161	

Information on the net weight of the enclosures can be found in the online catalogue.

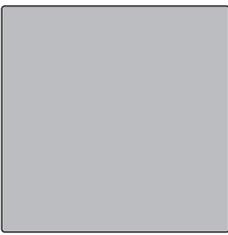
## TBF Page C.148

		Dimensions in mm Height x width x depth
	grey lid (RAL7035)	186 x 151 x 140
	grey lid (RAL7035) transparent lid	302 x 186 x 175
	grey lid (RAL7035) transparent lid	302 x 302 x 175
	grey lid (RAL7035) transparent lid	372 x 302 x 175

Information on the net weight of the enclosures can be found in the online catalogue.

# Overview of dimensions

TBF Page C. 148

		Dimensions in mm Height x width x depth
	grey lid (RAL7035) transparent lid	<b>488 x 302 x 175</b> <b>488 x 302 x 210</b>
	grey lid (RAL7035) transparent lid	<b>558 x 302 x 175</b> <b>558 x 302 x 210</b>
	grey lid (RAL7035) transparent lid	<b>603 x 302 x 175</b> <b>603 x 302 x 210</b>
	grey lid (RAL7035) transparent lid	<b>603 x 372 x 175</b> <b>603 x 372 x 210</b>
	grey lid (RAL7035) transparent lid	<b>603 x 605 x 175</b> <b>603 x 605 x 210</b>

Information on the net weight of the enclosures can be found in the online catalogue.

MPC Page C. 150

		Dimensions in mm Height x width x depth
	grey lid (RAL7035) transparent lid	<b>75 x 125 x 75</b>
	grey lid (RAL7035) transparent lid	<b>75 x 125 x 100/120</b>
	grey lid (RAL7035) transparent lid	<b>120 x 120 x 75/100/120</b>
	grey lid (RAL7035) transparent lid	<b>120 x 175 x 75/100/120/150</b>
	grey lid (RAL7035) transparent lid	<b>175 x 175 x 75 /100/120/150</b>
	grey lid (RAL7035) transparent lid	<b>175 x 250 x 100</b>
	grey lid (RAL7035) transparent lid	<b>180 x 250 x 75/150</b>

FPC Page C. 152

		Dimensions in mm Height x width x depth
	grey lid (RAL7035) transparent lid	<b>200 x 200 x 132</b>
	grey lid (RAL7035) transparent lid	<b>200 x 300 x 132</b>
	grey lid (RAL7035) transparent lid	<b>200 x 400 x 132</b>
	grey lid (RAL7035) transparent lid	<b>300 x 300 x 132</b>
	grey lid (RAL7035) transparent lid	<b>300 x 400 x 132</b>
	grey lid (RAL7035) transparent lid	<b>400 x 600 x 132</b>

Information on the net weight of the enclosures can be found in the online catalogue.



# Klippon® TB enclosure series

## Stainless steel enclosures for use within hazardous areas

The Klippon® TB enclosure series offers excellent performance characteristics and meets the stricter requirements of hazardous areas.

The enclosures are available in twelve sizes and three standard depths. They consist of 1.4404 (316L) stainless steel and meet the requirements of the IP66 and IP67 protection classes. The enclosures are tested with this equipment to the latest international standards, including EN 62208 and EN 60079.

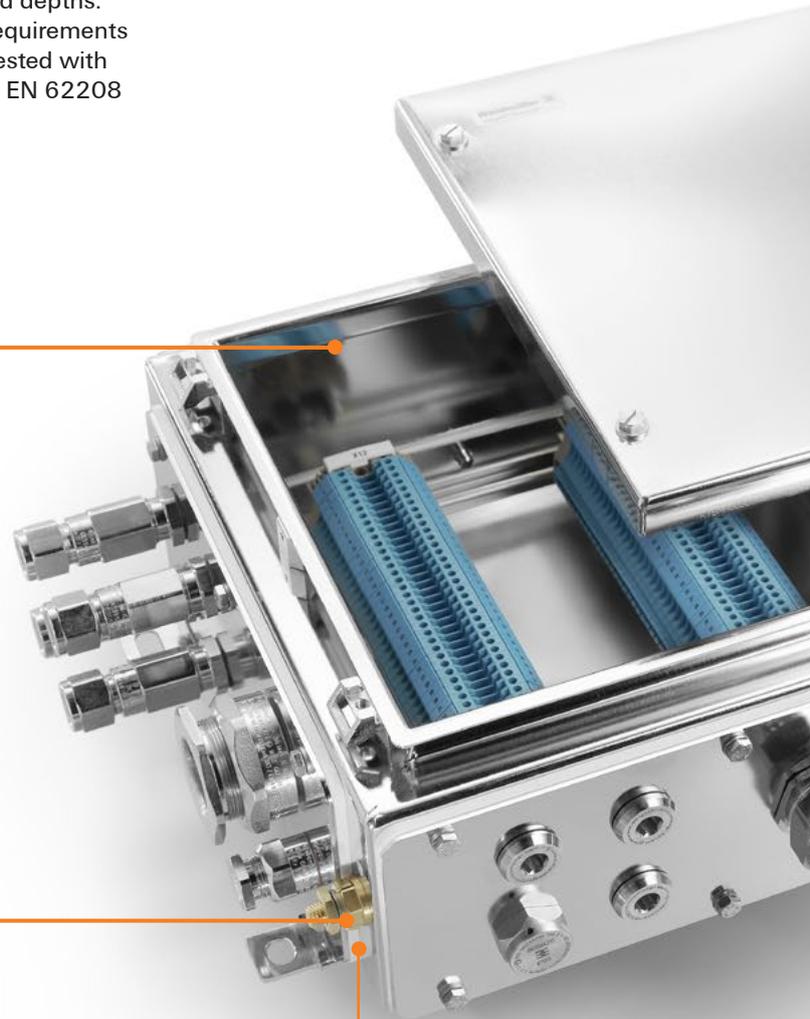
### Temperature and sealing characteristics

The enclosures come standard with a silicone seal for use under extreme temperatures.



### Safe protection

An integrated dust and moisture channel prevents dirt and moisture from penetrating when the enclosure is opened. The external earthing stud is equipped with an IP66/67 certified sealing mechanism and is protected against twisting.



### Versatile installation options

Mounting bolts are located within the enclosure for installing rails and mounting plates. Welded-on mounting feet provide for a fast, secure and stable wall mounting.



**Safety and stability**

The different sealing systems prevents unauthorized access to the enclosure. Welded on inner thread sockets provide a stable attachment mechanism for gland plates and protect against leaks.



**Easy installation**

The enclosures are delivered with up to four gland plates so that cable glands can be easily and quickly installed and attached.



**Klippon® cable glands**

Our complete series of IP66 and IP68 cable glands and accessories are an excellent compliment to the Klippon® TB enclosure series. Cable glands enable the connection of armoured and unarmoured cables from M20 to M75.



**Approvals**

The Klippon® TB range of enclosures has been awarded international approvals.



**Industrial segments**

The enclosures are designed for use in a variety of applications and for use in hazardous areas in particular. Typical applications include the process industry, the petrochemicals and power generation. All enclosures are tested and approved in compliance with the latest international standards, including ATEX and IECEx according to EN 60079.



**Customer-specific solutions**

Weidmüller's customer-specific-service provides comprehensive consultation, engineering and installation for modified enclosures. The enclosures can be modified during the production process according to customer demands and completed with various accessory components. There is a wide range of customer specific options available, such as enclosures with pre drilled holes and cutouts, various surfaces and materials, locking options and alternative sizes. Holders for documents and rating labels, door retainers, rain shields and many more accessories can also be installed on the enclosures per customer request.



# Klippon® TB MH – Multi Hinge

## Steel enclosures for use in industrial and in potentially explosive atmospheres

The Klippon® TB enclosure range features excellent performance characteristics, even under the most difficult environmental conditions, and also comply with the stricter requirements of potentially explosive atmospheres found in the process or power generation industries. The Klippon® TB MH enclosure range offers further improvements to a product line that is already successfully leading the market.

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.

### Features:

- Available in 25 sizes and 3 standard depths, with customer-specific sizes on request
- The gasket is protected against compression
- Completely removable padlock tab
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Lid can be removed without a tool
- Welded mounting feet
- International approvals



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klippontb](http://www.weidmueller.com/klippontb)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)



Overview of enclosures

Ordering data

Description	Height x width x depth in mm	1 Gland Plate (below)	3 Gland plates (below + sides)
KTB MH 221513 S4E_*	229 x 152 x 133	1194560000	1194580000
KTB MH 262615 S4E_*	260 x 260 x 150	1194610000	1194630000
KTB MH 262620 S4E_*	260 x 260 x 200	1194660000	1194680000
KTB MH 302015 S4E_*	306 x 203 x 150	8000108832	8000108833
KTB MH 303015 S4E_*	306 x 306 x 150	1194710000	1194730000
KTB MH 303020 S4E_*	306 x 306 x 200	1194760000	1194780000
KTB MH 352615 S4E_*	350 x 260 x 150	1194810000	1194830000
KTB MH 352620 S4E_*	350 x 260 x 200	1194860000	1194880000
KTB MH 353520 S4E_*	350 x 350 x 200	8000108838	8000108839
KTB MH 355520 S4E_*	350 x 550 x 200	2698050000	-
KTB MH 403015 S4E_*	400 x 300 x 150	1194910000	1194930000
KTB MH 403020 S4E_*	400 x 300 x 200	1194960000	1194980000
KTB MH 404020 S4E_*	406 x 406 x 200	8000108844	8000108845
KTB MH 453815 S4E_*	458 x 382 x 150	1195010000	1195030000
KTB MH 453820 S4E_*	458 x 382 x 200	1195060000	1195080000
KTB MH 456220 S4E_*	450 x 620 x 200	2698070000	-
KTB MH 484815 S4E_*	480 x 480 x 150	1195110000	1195130000
KTB MH 484820 S4E_*	480 x 480 x 200	1195160000	1195180000
KTB MH 504020 S4E_*	508 x 406 x 200	8000108850	8000108851
KTB MH 507620 S4E_*	508 x 762 x 200	2698090000	-
KTB MH 553515 S4E_*	550 x 350 x 150	1195210000	1195230000
KTB MH 553520 S4E_*	550 x 350 x 200	1195260000	1195280000
KTB MH 624515 S4E_*	620 x 450 x 150	1195310000	1195330000
KTB MH 624520 S4E_*	620 x 450 x 200	1195360000	1195380000
KTB MH 625020 S4E_*	620 x 508 x 200	8000108859	8000108860
KTB MH 626220 S4E_*	620 x 620 x 200	8000108865	8000108866
KTB MH 765015 S4E_*	762 x 508 x 150	1195410000	1195430000
KTB MH 765020 S4E_*	762 x 508 x 200	1195460000	1195480000
KTB MH 766215 S4E_*	760 x 620 x 150	8000108868	8000108869
KTB MH 916120 S4E_*	914 x 610 x 200	1195560000	1195580000
KTB MH 987420 S4E_*	980 x 740 x 200	1195610000	1195630000

**Note** \* Placeholder for the number of gland plates (1, 3). Other sizes and variants on request.

## Technical Overview

### Technical data

Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	electropolished
IP protection class	IP66 / IP67 to DIN EN 60529
NEMA protection classes	3, 4x, 12
Gland plates	1 or 3 (fixed with M6 hexagon head screws with 10 mm heads)
Gland plate thickness	3 mm (other thickness are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail
Enclosure attachment	4 or 6 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	Lid can be fully removed without the use of tools, can be fitted on both sides, lid opening angle: 130°
Cover attachment	4 hinges and M6 hex-head screws (AF 10) with slot
Equipped for a padlock	Removable padlock fitting, for additional product security
Impact resistance	7 J to IEC 60079-0, IK 09 (10J) to DIN EN 50102
Gasket material	Silicone
Operating temperature range	-60 °C...+105 °C (IP66/IP67), -60 °C...+135 °C (IP66)
Torque – lid and gland plate screws	2.5 Nm
<b>Note</b>	* Painted enclosures are available on request.

### Approvals for empty enclosures

ATEX certificate	IBExU14ATEX1028 U	cULus	E243298
ATEX marking	II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db	DNV	TAEO00013S
IECEx certificate	IECEx IBE 14.0004U	CCOE	P461058_1
IECEx marking	Ex eb IIC Gb Ex tb IIIC Db	INMETRO	LMP 21.0017
CCCEX certificate	2020322303002357	AEx	E223792
CCCEX marking	Ex e IIC Gb, Ex tD A21 IP66/67	Miscellaneous	EN 45545, DIN EN 15085-2/CL2
<b>Note</b>	The Klippon® TB enclosure range can be pre-fitted in our customer specific production department according to your wishes.		

### Approvals for control and distribution box

ATEX certificate	IBExU14ATEX1050	KOSHA certificate	16-AV4B0-0245X
ATEX marking	⊕ II 2G Ex eb IIC/IIB/IIA T6/T5/T4 Gb ⊕ II 1G Ex ia IIC/IIB/IIA T6/T5/T4 Ga ⊕ II 2G Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb ⊕ II 2D Ex tb IIIC T80°C/T95°C/T135°C Db ⊕ II 1D Ex ia IIIC T80°C/T95°C/T135°C Da -60 °C ≤ Ta ≤ +40/+55/+90 °C	KOSHA marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T135°C Db Ex ia IIIC T80°C/T95°C/T135°C Da 60 °C...+40/+55/+90 °C
CCCEX certificate	2020322303002358	IECEx certificate	IECEx IBE 14.0013
CCCEX marking	Ex e IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex e ia IIC/IIB/IIA T6/T5/T4 Gb	IECEx marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T135°C Db Ex ia IIIC T80°C/T95°C/T135°C Da -60 °C...+40/+55/+90 °C
INMETRO certificate	IEx 17.0021	AEx certificate	E223792
INMETRO marking	Ex eb IIC T6/T5/T4 Gb Ex ia IIC T6/T5/T4 Ga Ex eb ia IIC T6/T5/T4 Gb Ex tb IIIC 85°C/100°C/135°C Db IP66/IP67 Ex ia IIIC 85°C/100°C/135°C Da	AEx marking	Class I, Zone 1, AEx e IIC Gb T6..T4 Class I, Zone 2, AEx e IIC Gc T6..T4 Class I Div.2 Group A,B,C,D T6..T4 Class II Div.2 Group F,G Zone 21, AEx tb IIIC Db
<b>Note</b>	Labelling depends on the application layout. Limited to IP66 protection when used in temperatures greater than 105 °C. For details of power dissipation, please contact your Weidmüller representative. Additional approvals available on request.		

# Klippon® TB – Integrate, expand, and customise: The perfect supplement to every application

The fully structured range of system accessories for the Klippon® TB enclosure range allows you to easily adapt the enclosure to meet the specific requirements of every application.

The following options are available:

## 1 Document holder

Document holders for storage of important documents in the enclosure.

## 2 Earthing studs

Earthing studs are replaceable. Available in two versions – brass and stainless steel.

## 3 Gland plates

Flange plates in two thicknesses designed for easy on -replacement.

## 4 Mounting plates

Mounting plates with and without a drilling pattern, for horizontal and vertical mounting of rails, or components fitted directly.

## 5 Mounting hardware kits

Mounting hardware kits are available for quick and easy installation of label holders, mounting plates, gland plates, document holders, and rain hoods.

## 6 Door stay

A door stay prevents the door from being closed unintentionally, regardless of the mounting position of the enclosure. This item is **only** available Ex-works.

## 7 Locking systems

Various locking systems are available for the safe and orderly securing of the enclosure. Different screw types for the Klippon® TB MH and FS and different lock inserts for the Klippon® TB QL.

## 8 Type label holder

A range of nameplate holders are available for the prominent display of required and additional nameplates.

## 9 Rain hoods

The rain hood provides an ideal, additional level of protection for the enclosure. Particularly useful against heavy rainfall or extreme levels of direct sunlight.

## 10 Viewing window in the enclosure cover

Viewing window in the enclosure cover for the easy monitoring of active components or operating status.

## 11 EMC optimisation

For the improved electromagnetic shielding of sensitive components, we offer individual EMC optimisations, e.g. special EMC gaskets.

## 12 Laboratory tests

Thanks to our accredited laboratory, we can carry further customised tests and approvals.





Height / Width / Depth 229 / 152 / 133 mm

**Ordering data**

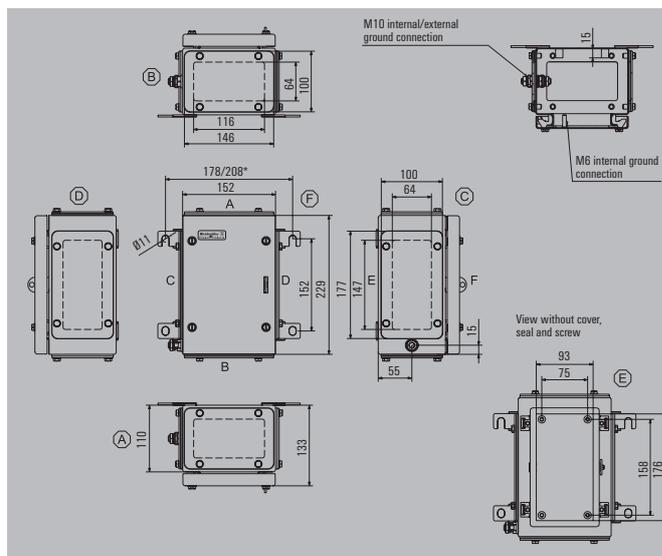
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194560000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194580000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1193930000	
With hole pattern, sheet steel, galvanised	2022050000	
Stainless steel 1.4301, natural	1193810000	
With hole pattern, natural stainless steel 1.4301	1257650000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006720
	Vertical	800006708
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2022770000
	Left and right sides (C & D), electropolished stainless steel 1.4404	2022900000
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256270000
	Left and right sides (C & D), electropolished stainless steel 1.4404	1256280000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314090000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x26	1x10
4 mm <sup>2</sup>	1x21	1x8
6 mm <sup>2</sup>	1x16	1x6
10 mm <sup>2</sup>	1x13	1x4
16 mm <sup>2</sup>	1x10	1x3
35 mm <sup>2</sup>	1x7	1x2

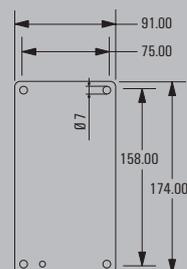
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	6	8
M16	5	6
M20	2	3
M25	2	2
M32	1	2
M40	1	2
M50	0	0
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 260 / 260 / 150 mm

**Ordering data**

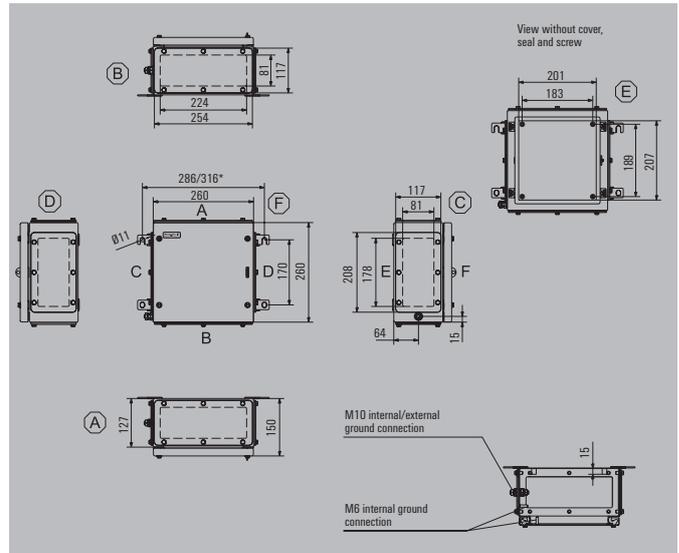
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194610000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194630000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193950000
With hole pattern, sheet steel, galvanised	2022060000
Stainless steel 1.4301, natural	1193820000
With hole pattern, natural stainless steel 1.4301	1257660000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006721
Vertically	800006709
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023160000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023090000
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256290000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256310000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	1314100000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x31	2x31
4 mm <sup>2</sup>	1x26	1x26
6 mm <sup>2</sup>	1x19	1x19
10 mm <sup>2</sup>	1x15	1x15
16 mm <sup>2</sup>	1x12	1x12
35 mm <sup>2</sup>	1x9	1x9

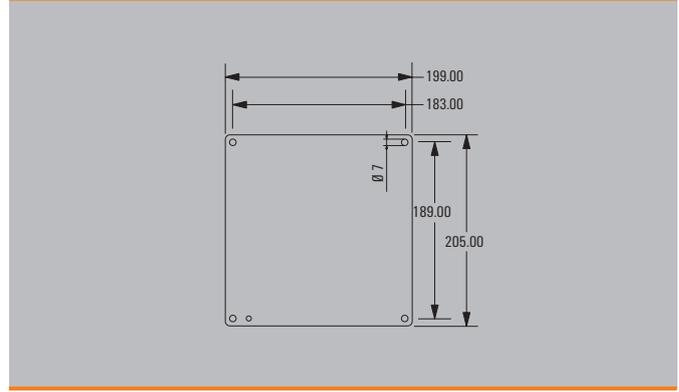
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	20	15
M16	11	8
M20	9	7
M25	4	3
M32	3	2
M40	3	2
M50	2	2
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 260 / 260 / 200 mm

**Ordering data**

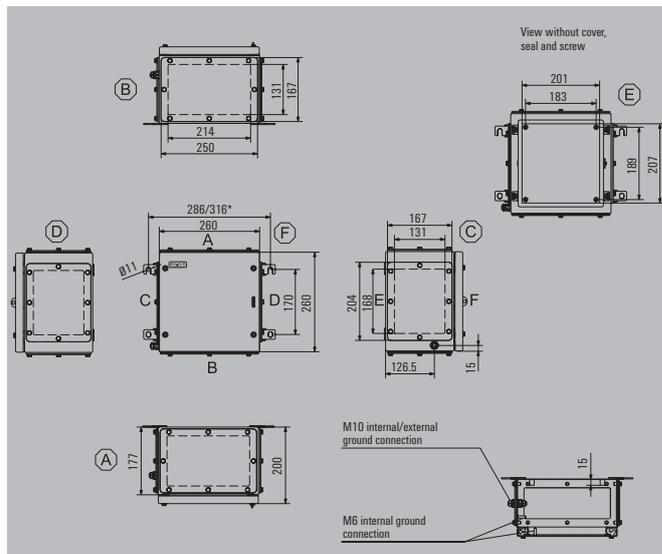
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194660000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194680000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193950000
With hole pattern, sheet steel, galvanised	2022060000
Stainless steel 1.4301, natural	1193820000
With hole pattern, natural stainless steel 1.4301	1257660000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006721
Vertical	800006709
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023100000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023110000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256320000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256330000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314150000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x31	2x31
4 mm <sup>2</sup>	1x26	1x26
6 mm <sup>2</sup>	1x19	1x19
10 mm <sup>2</sup>	1x15	1x15
16 mm <sup>2</sup>	1x12	1x12
35 mm <sup>2</sup>	1x9	1x9

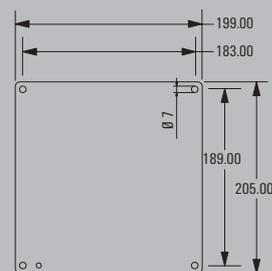
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	33	25
M16	22	16
M20	14	11
M25	12	9
M32	6	4
M40	5	4
M50	2	2
M63	2	1
M75	1	1

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 306 / 203 / 150 mm

**Ordering data**

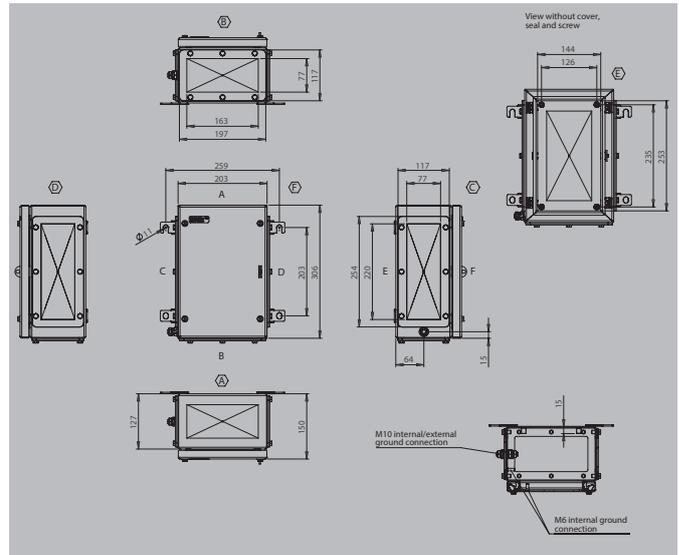
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	8000108832
3 gland plates - positioned at bottom, left and right (B, C & D)	8000108833

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000110193
With hole pattern, sheet steel, galvanised	8000115913
Stainless steel 1.4301, natural	8000115923
With hole pattern, natural stainless steel 1.4301	8000115902
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	8000116109
Vertical	8000116099
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	0642600000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114887
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114898
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114143
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114149
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	8000115024
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
Set of fixings*	
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x40	2x22
4 mm <sup>2</sup>	1x33	2x18
6 mm <sup>2</sup>	1x25	2x13
10 mm <sup>2</sup>	1x20	1x11
16 mm <sup>2</sup>	1x16	1x8
35 mm <sup>2</sup>	1x12	1x6

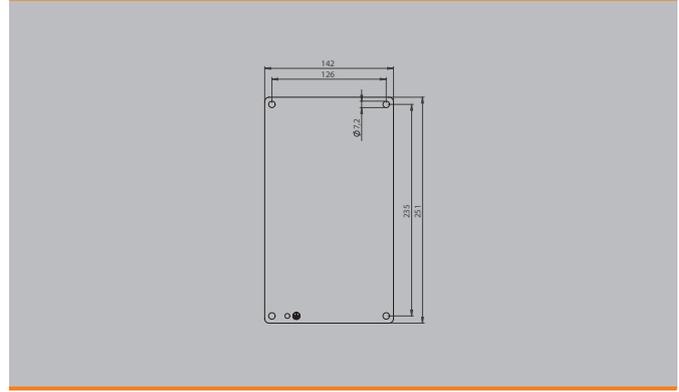
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	32	33
M16	18	22
M20	10	14
M25	8	12
M32	3	6
M40	2	5
M50	2	2
M63	2	2
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 306 / 306 / 150 mm

**Ordering data**

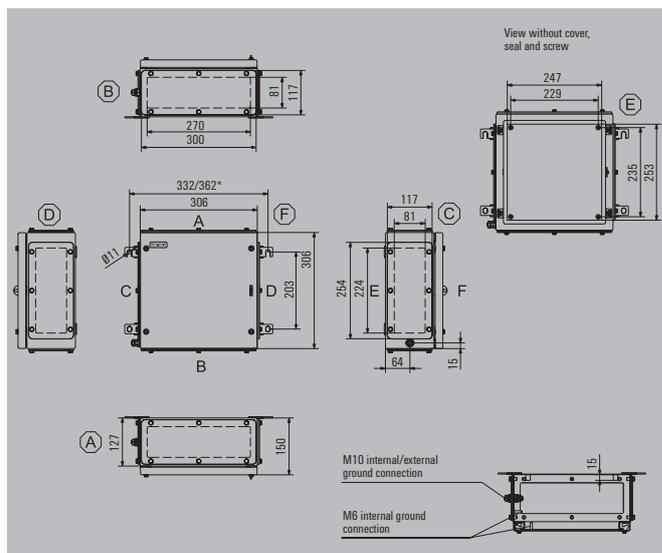
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194710000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194730000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193960000
With hole pattern, sheet steel, galvanised	2022190000
Stainless steel 1.4301, natural	1193830000
With hole pattern, natural stainless steel 1.4301	1257670000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006722
Vertical	800006710
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023120000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114898
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256340000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	1314120000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x41	2x40
4 mm <sup>2</sup>	2x34	2x33
6 mm <sup>2</sup>	2x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x17	1x16
35 mm <sup>2</sup>	1x12	1x12

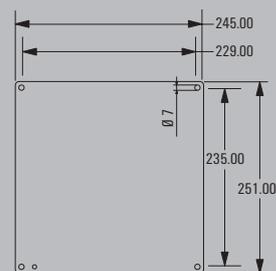
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	24	20
M16	13	11
M20	11	9
M25	5	4
M32	4	3
M40	3	3
M50	3	2
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 306 / 306 / 200 mm

**Ordering data**

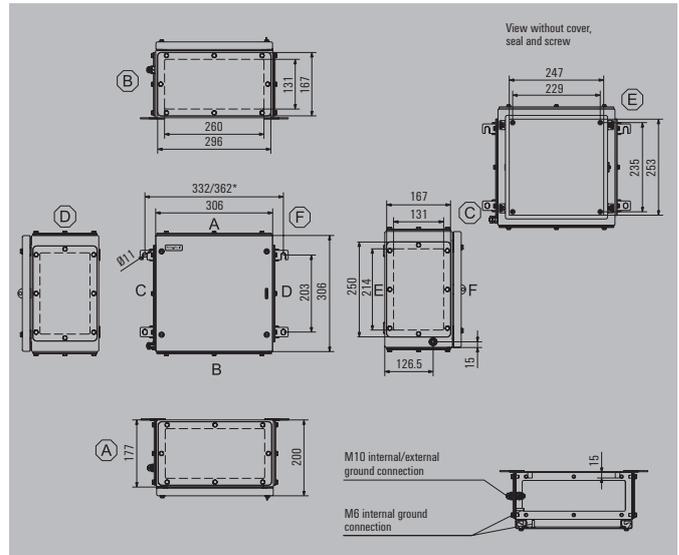
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194760000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194780000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193960000
With hole pattern, sheet steel, galvanised	2022190000
Stainless steel 1.4301, natural	1193830000
With hole pattern, natural stainless steel 1.4301	1257670000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006722
Vertical	800006710
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023140000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023150000
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256360000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256370000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	1314130000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x41	2x40
4 mm <sup>2</sup>	2x34	2x33
6 mm <sup>2</sup>	2x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x17	1x16
35 mm <sup>2</sup>	1x12	1x12

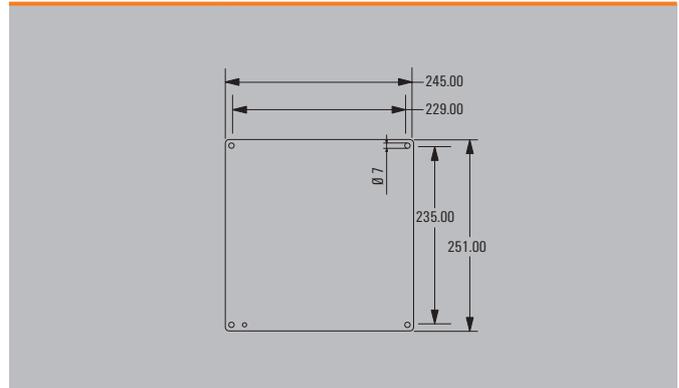
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	40	33
M16	26	22
M20	17	14
M25	14	12
M32	8	6
M40	6	5
M50	3	2
M63	2	2
M75	2	1

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 350 / 260 / 150 mm

**Ordering data**

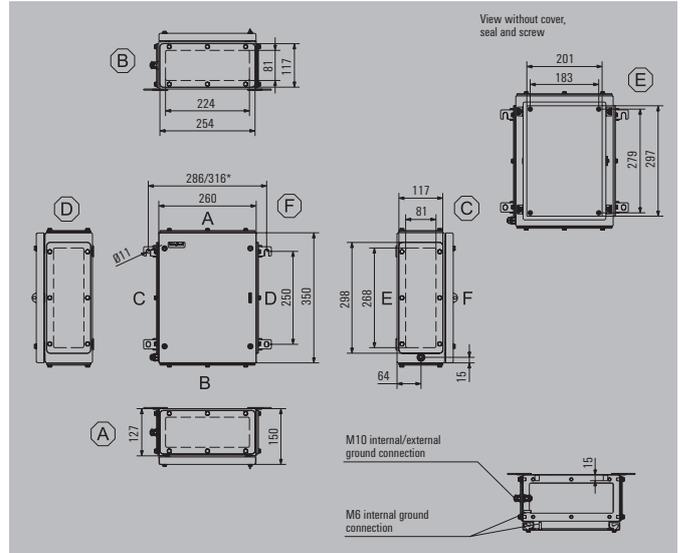
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194810000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194830000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193970000
With hole pattern, sheet steel, galvanised	2022310000
Stainless steel 1.4301, natural	1193840000
With hole pattern, natural stainless steel 1.4301	1257680000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006721
Vertical	800006711
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023160000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114901
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256380000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	1314140000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x49	2x31
4 mm <sup>2</sup>	1x41	2x26
6 mm <sup>2</sup>	1x31	2x19
10 mm <sup>2</sup>	1x25	2x15
16 mm <sup>2</sup>	1x20	1x12
35 mm <sup>2</sup>	1x15	1x9

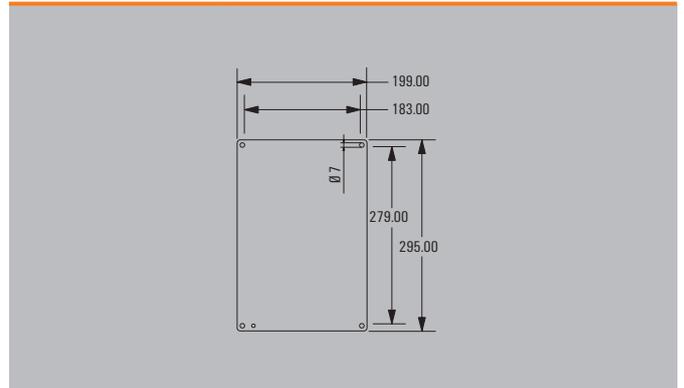
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	20	23
M16	11	13
M20	9	11
M25	4	5
M32	3	4
M40	3	3
M50	2	3
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 350 / 260 / 200 mm

**Ordering data**

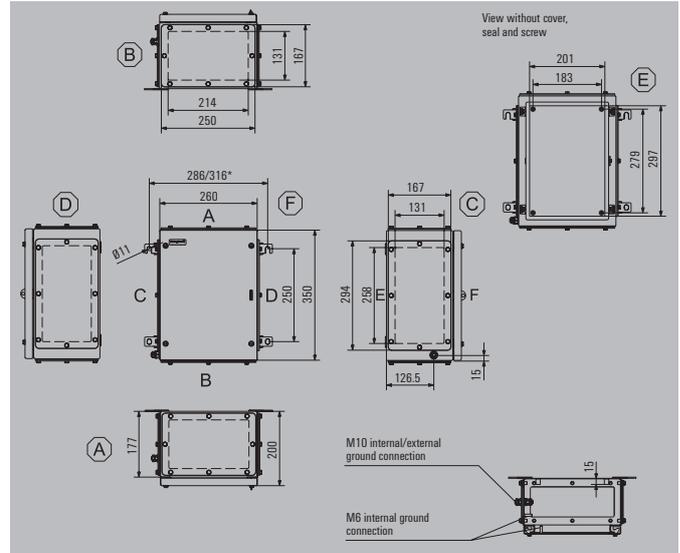
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194860000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194880000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193970000
With hole pattern, sheet steel, galvanised	2022310000
Stainless steel 1.4301, natural	1193840000
With hole pattern, natural stainless steel 1.4301	1257680000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006721
Vertically	800006711
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023100000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114906
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256320000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114132
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314150000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x49	2x31
4 mm <sup>2</sup>	1x41	2x26
6 mm <sup>2</sup>	1x31	2x19
10 mm <sup>2</sup>	1x25	2x15
16 mm <sup>2</sup>	1x20	1x12
35 mm <sup>2</sup>	1x15	1x9

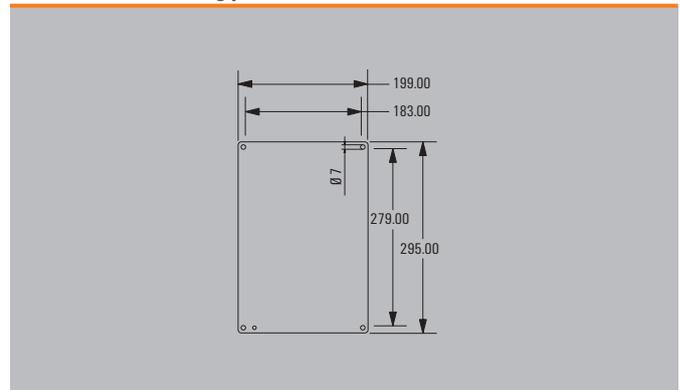
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	33	38
M16	22	26
M20	14	17
M25	12	14
M32	6	7
M40	5	6
M50	2	3
M63	2	2
M75	1	2

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 350 / 350 / 150 mm

**Ordering data**

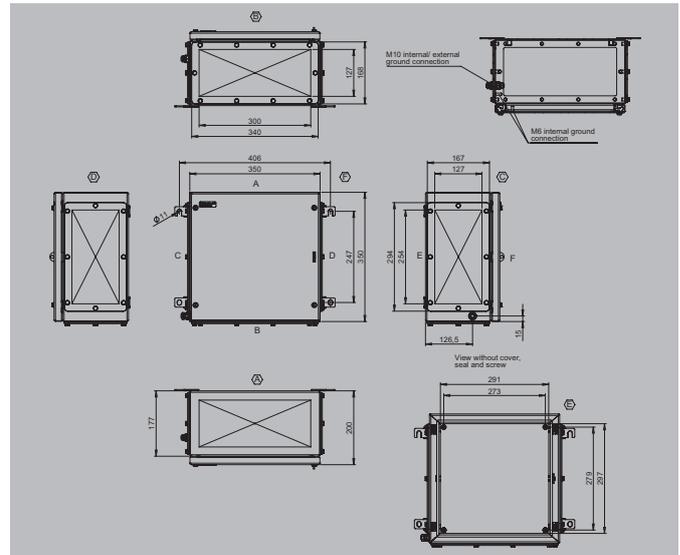
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	8000108838
3 gland plates - positioned at bottom, left and right (B, C & D)	8000108839

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000110194
With hole pattern, sheet steel, galvanised	8000115914
Stainless steel 1.4301, natural	8000115924
With hole pattern, natural stainless steel 1.4301	8000115903
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	8000116110
Vertical	8000116100
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114905
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114906
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114130
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114132
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	8000115026
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	Order No.
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x49	2x49
4 mm <sup>2</sup>	2x41	2x41
6 mm <sup>2</sup>	2x31	2x31
10 mm <sup>2</sup>	2x25	2x25
16 mm <sup>2</sup>	1x15	1x15
35 mm <sup>2</sup>		

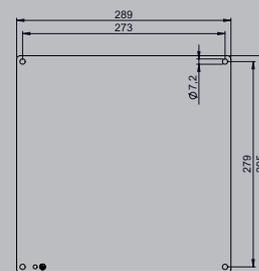
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	60	52
M16	36	30
M20	20	16
M25	16	12
M32	6	5
M40	5	4
M50	4	3
M63	3	3
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 350 / 550 / 200 mm

**Ordering data**

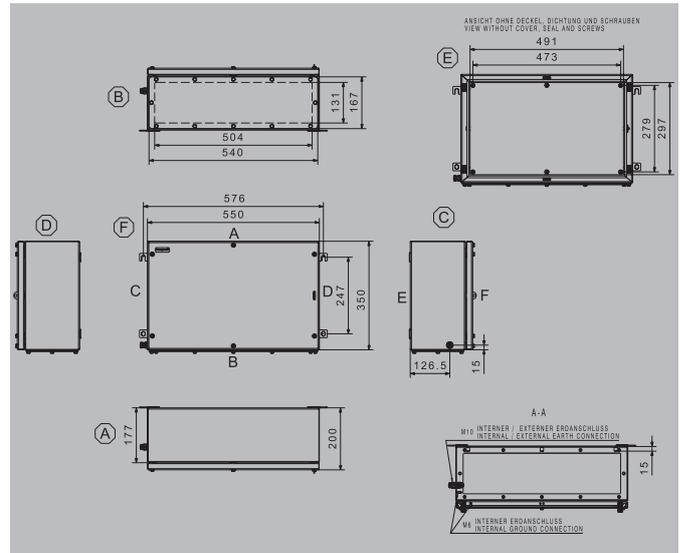
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	2698050000

**Note** Further gland plate configurations available on request.

**Accessories**

<b>Mounting plates</b>	Order No.
With hole pattern, sheet steel, galvanised	2716090000
Steel sheet, zinc plated (ST/ZN)	2715560000
<b>Mounting rails**</b> , TS35x7.5 (ST/ZN)	
Horizontally	8000073447
<b>Fastening screws</b>	
Fastening screws for terminal rails*	1274150000
<b>Label holder</b>	
100x25 stainless steel 1.4301	1257640000
130x50 stainless steel 1.4301	1283450000
70 x 70 angled stainless steel 1.4301	1279320000
<b>Set of fixings*</b>	
For label holders, rain hoods and document holders (rivet)	1252190000
<b>Stainless steel document holders</b>	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
<b>Set of fixings*</b>	
For plastic (Trafolyte), identification plate (screw)	1285200000
<b>Earthing stud</b>	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
\*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x52	2x91
4 mm <sup>2</sup>	4x43	2x76
6 mm <sup>2</sup>	4x32	2x58
10 mm <sup>2</sup>	3x26	2x46
16 mm <sup>2</sup>	3x22	1x39
35 mm <sup>2</sup>	2x16	1x29

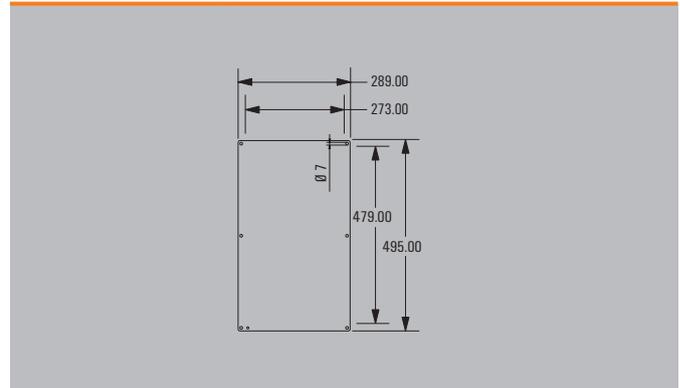
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
Ordering recommendations:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
TS 32 Mounting rail with clamping yoke technology SAK  
TS 15 Mounting rail with clamping yoke technology AKZ  
Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	70	45
M16	48	30
M20	30	20
M25	26	17
M32	14	9
M40	12	7
M50	5	3
M63	4	3
M75	3	2

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 400 / 300 / 150 mm

**Ordering data**

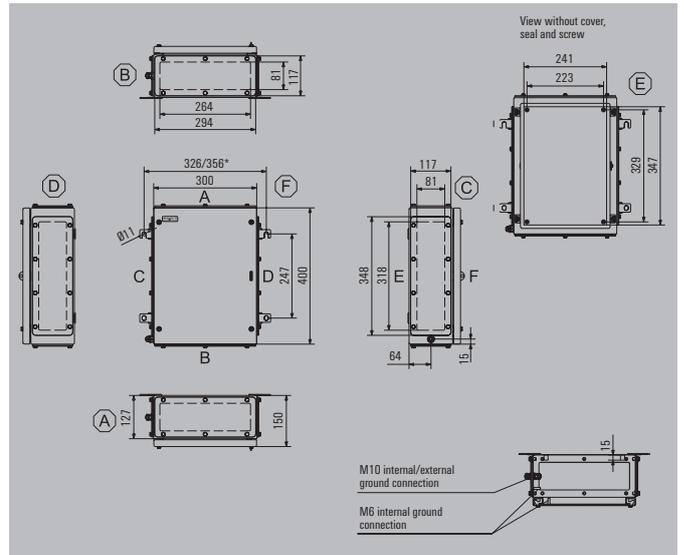
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194910000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194930000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1193980000	
With hole pattern, sheet steel, galvanised	2022420000	
Stainless steel 1.4301, natural	1193850000	
With hole pattern, natural stainless steel 1.4301	1257690000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006723
	Vertical	800006712
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023320000
	Left and right sides (C & D), electropolished stainless steel 1.4404	2023330000
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256430000
	Left and right sides (C & D), electropolished stainless steel 1.4404	1256440000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314170000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x59	3x39
4 mm <sup>2</sup>	2x49	3x32
6 mm <sup>2</sup>	1x37	2x24
10 mm <sup>2</sup>	1x30	2x19
16 mm <sup>2</sup>	1x24	2x16
35 mm <sup>2</sup>	1x18	1x11

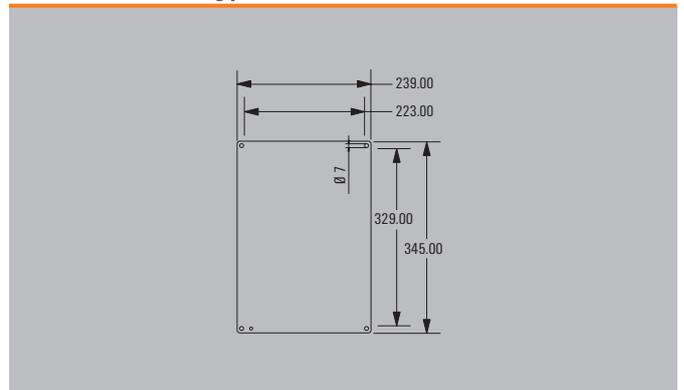
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	23	29
M16	13	16
M20	11	13
M25	5	6
M32	4	5
M40	3	4
M50	3	3
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 400 / 300 / 200 mm

**Ordering data**

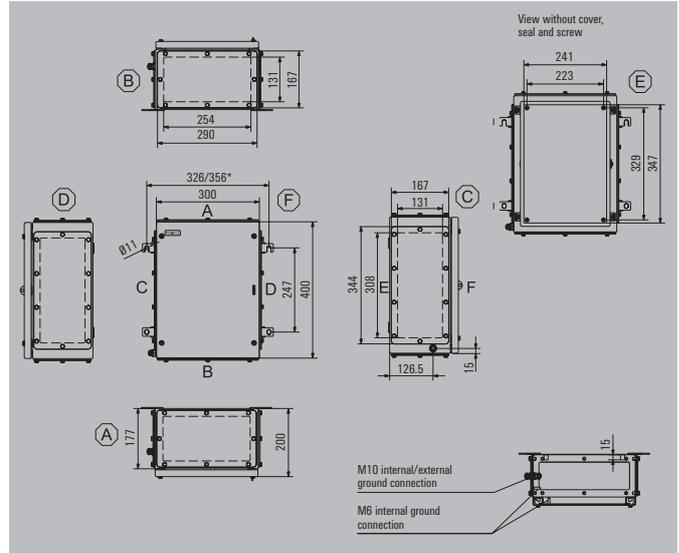
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1194960000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194980000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1193980000
With hole pattern, sheet steel, galvanised	2022420000
Stainless steel 1.4301, natural	1193850000
With hole pattern, natural stainless steel 1.4301	1257690000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006723
Vertically	800006712
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023450000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023480000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256450000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256470000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314180000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x59	3x39
4 mm <sup>2</sup>	2x49	3x32
6 mm <sup>2</sup>	1x37	2x24
10 mm <sup>2</sup>	1x30	2x19
16 mm <sup>2</sup>	1x24	2x16
35 mm <sup>2</sup>	1x18	1x11

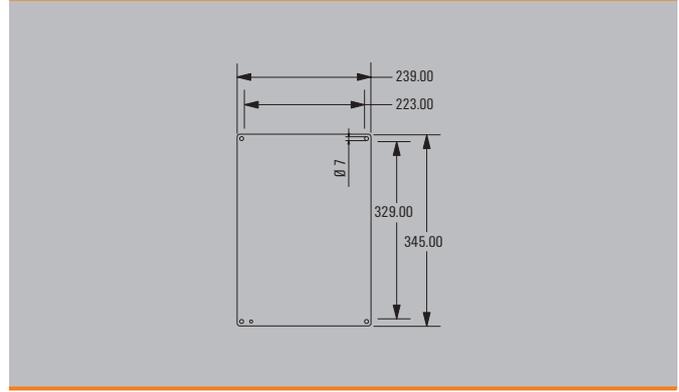
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	38	48
M16	26	32
M20	17	20
M25	14	17
M32	7	9
M40	6	7
M50	3	3
M63	2	3
M75	2	2

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**







Height / Width / Depth 458 / 382 / 150 mm

**Ordering data**

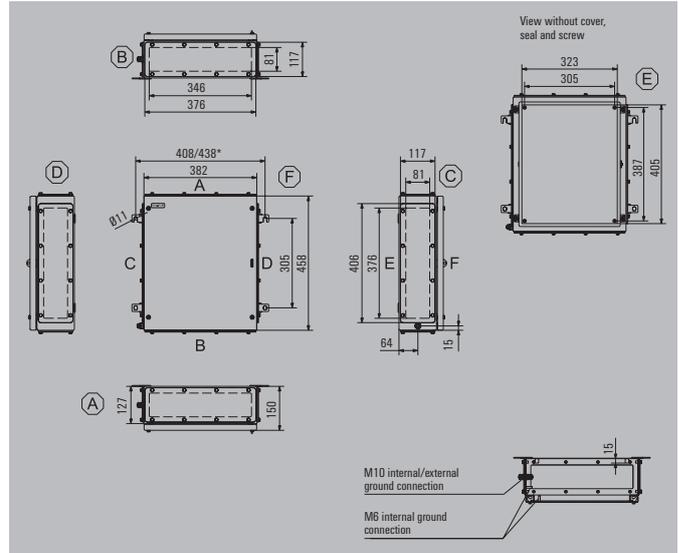
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195010000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195030000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1193990000	
With hole pattern, sheet steel, galvanised	2022590000	
Stainless steel 1.4301, natural	1193860000	
With hole pattern, natural stainless steel 1.4301	1257700000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006724
	Vertical	800006713
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023490000
	Left and right sides (C & D), electropolished stainless steel 1.4404	2023500000
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256480000
	Left and right sides (C & D), electropolished stainless steel 1.4404	1256490000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314190000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x71	4x54
4 mm <sup>2</sup>	2x59	3x46
6 mm <sup>2</sup>	2x44	3x34
10 mm <sup>2</sup>	2x36	2x27
16 mm <sup>2</sup>	2x29	2x22
35 mm <sup>2</sup>	1x22	1x17

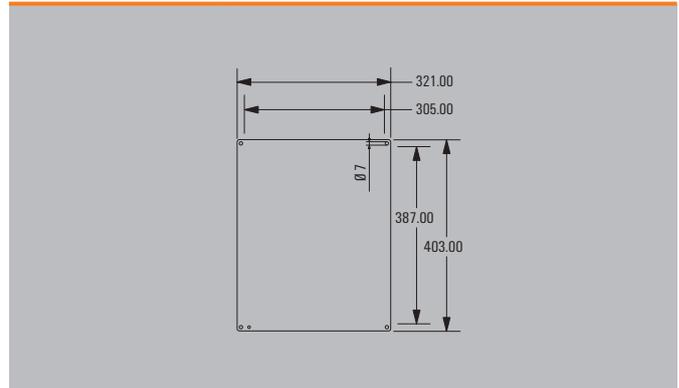
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	30	33
M16	17	19
M20	15	16
M25	6	7
M32	5	6
M40	4	5
M50	4	4
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 458 / 382 / 200 mm

**Ordering data**

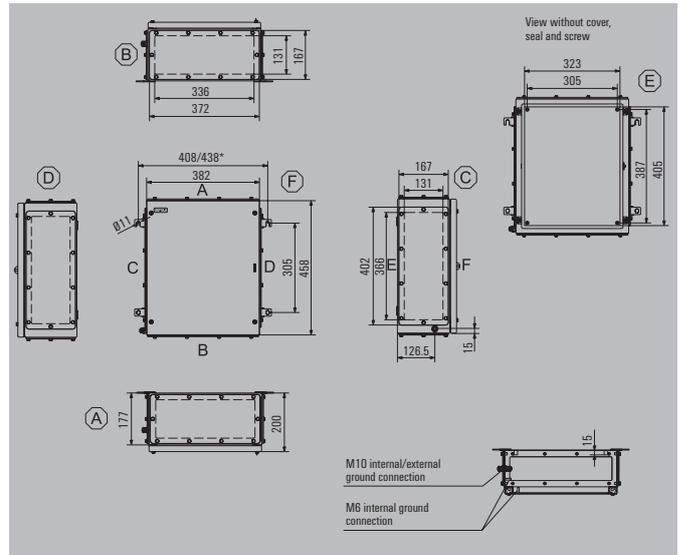
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195060000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195080000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1193990000	
With hole pattern, sheet steel, galvanised	2022590000	
Stainless steel 1.4301, natural	1193860000	
With hole pattern, natural stainless steel 1.4301	1257700000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006724
	Vertical	800006713
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023510000
	Left and right sides (C & D), electropolished stainless steel 1.4404	2023520000
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256510000
	Left and right sides (C & D), electropolished stainless steel 1.4404	1256520000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314200000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x71	4x54
4 mm <sup>2</sup>	2x59	3x46
6 mm <sup>2</sup>	2x44	3x34
10 mm <sup>2</sup>	2x36	2x27
16 mm <sup>2</sup>	2x29	2x22
35 mm <sup>2</sup>	1x22	1x17

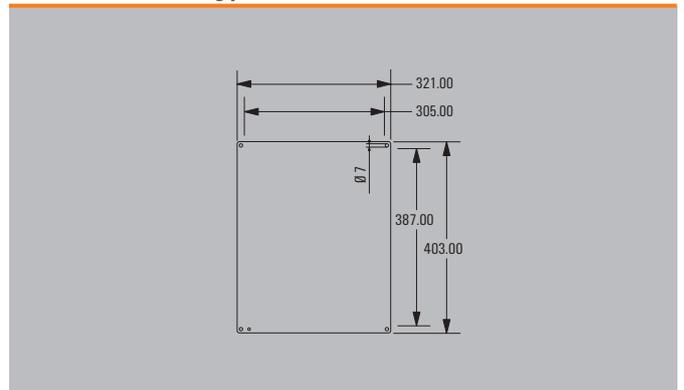
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	50	55
M16	34	38
M20	23	24
M25	18	21
M32	10	11
M40	8	9
M50	4	4
M63	3	3
M75	2	3

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**



Klippon® TB MH 456220

Depth 200 mm



Height / Width / Depth 450 / 620 / 200 mm

Ordering data

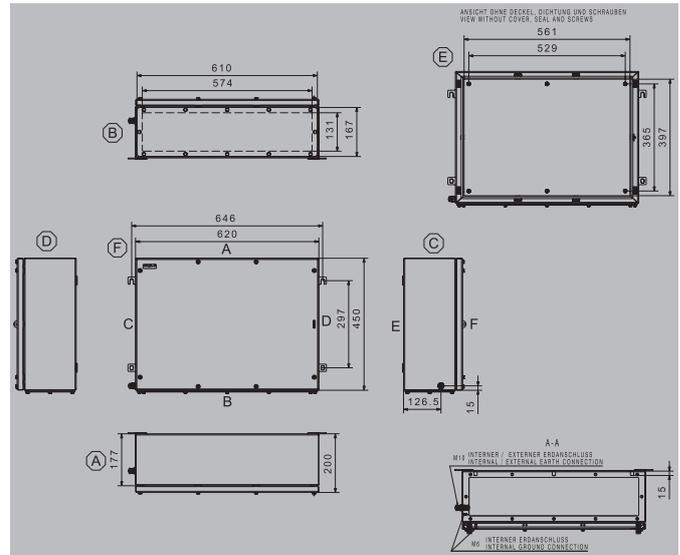
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	<b>2698070000</b>

**Note** Further gland plate configurations available on request.

Accessories

<b>Mounting plates</b>	Order No.
Steel sheet, zinc plated (ST/ZN)	<b>2716100000</b>
With hole pattern, sheet steel, galvanised	<b>2716110000</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>1257640000</b>
130x50 stainless steel 1.4301	<b>1283450000</b>
70 x 70 angled stainless steel 1.4301	<b>1279320000</b>
<b>Set of fixings*</b>	
For label holders, rain hoods and document holders (rivet)	<b>1252190000</b>
<b>Stainless steel document holders</b>	
For DIN A6 size documents	<b>1252780000</b>
For DIN A5 size documents	<b>1252750000</b>
For DIN A4 size documents	<b>1252730000</b>
<b>Set of fixings*</b>	
For plastic (Trafolyte), identification plate (screw)	<b>1285200000</b>
<b>Earthing stud</b>	
Stainless steel 1.4404, M10	<b>1192690000</b>

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
\*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	5x71	3x105
4 mm <sup>2</sup>	5x59	3x88
6 mm <sup>2</sup>	4x45	3x66
10 mm <sup>2</sup>	4x36	2x53
16 mm <sup>2</sup>	3x30	2x44
35 mm <sup>2</sup>	2x22	1x33

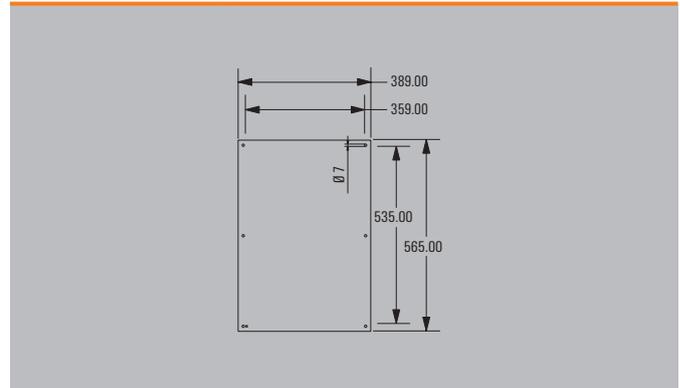
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
Ordering recommendations:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
TS 32 Mounting rail with clamping yoke technology SAK  
TS 15 Mounting rail with clamping yoke technology AKZ  
Order information for terminal blocks, please refer to online catalogue.

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	80	63
M16	54	42
M20	36	27
M25	30	23
M32	17	12
M40	14	10
M50	6	4
M63	5	4
M75	4	3

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate





Height / Width / Depth 480 / 480 / 150 mm

**Ordering data**

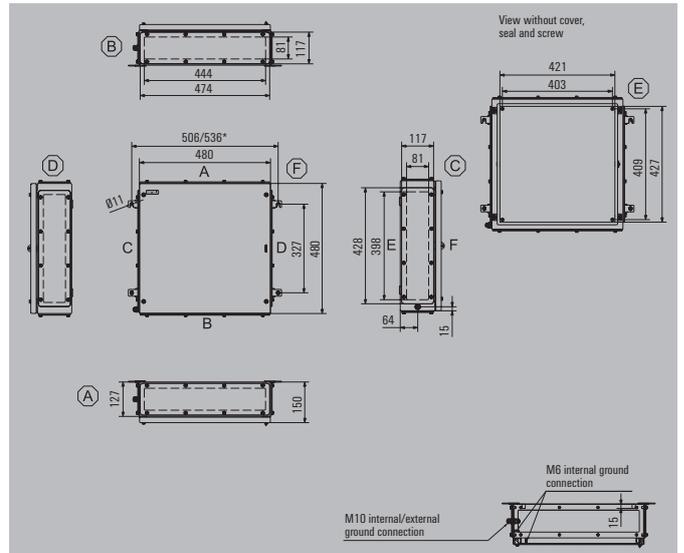
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195110000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195130000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1194000000	
With hole pattern, sheet steel, galvanised	2022610000	
Stainless steel 1.4301, natural	1193870000	
With hole pattern, natural stainless steel 1.4301	1257710000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006725
	Vertical	800006714
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023530000
	Left and right sides (C & D), electropolished stainless steel 1.4404	2023540000
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256530000
	Left and right sides (C & D), electropolished stainless steel 1.4404	1256540000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314220000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
	For DIN A4 size documents	1252730000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x75	4x74
4 mm <sup>2</sup>	3x62	3x62
6 mm <sup>2</sup>	3x47	3x46
10 mm <sup>2</sup>	2x38	3x37
16 mm <sup>2</sup>	2x31	2x31
35 mm <sup>2</sup>	1x23	2x23

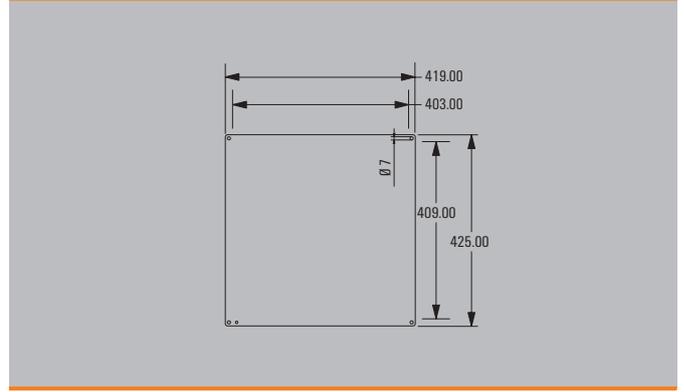
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	39	36
M16	22	20
M20	19	17
M25	8	7
M32	7	6
M40	6	5
M50	5	4
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 480 / 480 / 200 mm

**Ordering data**

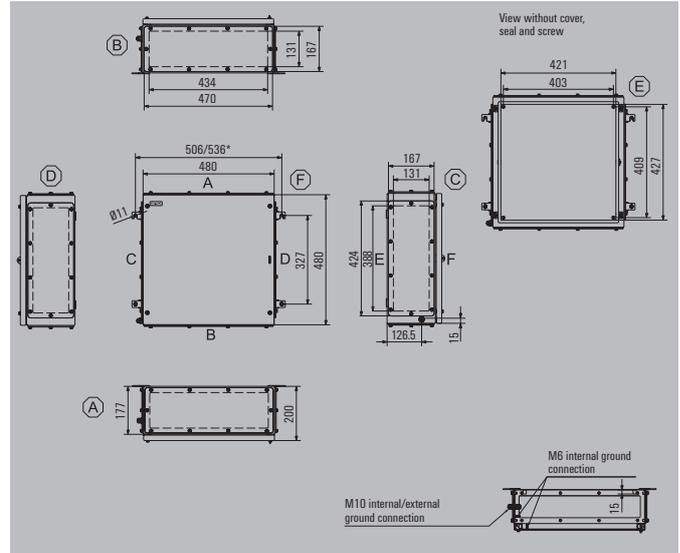
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195160000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195180000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194000000
With hole pattern, sheet steel, galvanised	2022610000
Stainless steel 1.4301, natural	1193870000
With hole pattern, natural stainless steel 1.4301	1257710000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006725
Vertical	800006714
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023580000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023620000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256550000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256560000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314230000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x75	4x74
4 mm <sup>2</sup>	3x62	3x62
6 mm <sup>2</sup>	3x47	3x46
10 mm <sup>2</sup>	2x38	3x37
16 mm <sup>2</sup>	2x31	2x31
35 mm <sup>2</sup>	1x23	2x23

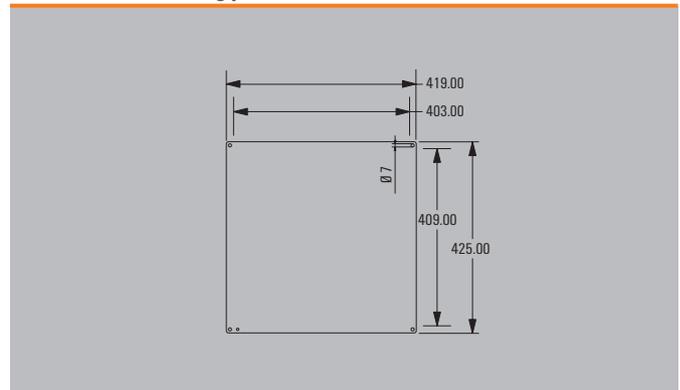
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	65	60
M16	44	40
M20	29	26
M25	24	21
M32	13	12
M40	11	10
M50	5	4
M63	4	4
M75	3	3

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 508 / 406 / 200 mm

**Ordering data**

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	8000108850
3 gland plates - positioned at bottom, left and right (B, C & D)	8000108851

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000110196
With hole pattern, sheet steel, galvanised	8000115916
With hole pattern, natural stainless steel 1.4301	8000115905

Mounting rails**	Order No.
Horizontally	8000116112
Vertical	8000116102

Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000

Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000

Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114910
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114890

Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114137
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114140
Mounting screw, stainless steel 1.4404	1253230000

Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	8000115028

Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000

Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000

Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000

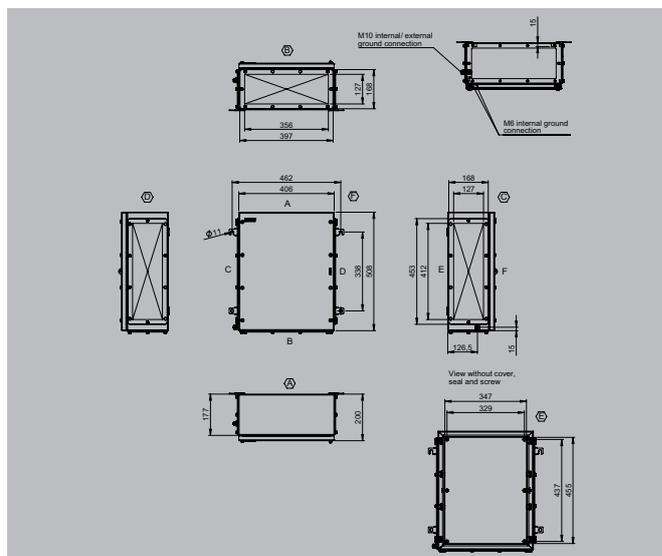
  

Set of fixings*	Order No.
For plastic (Trafolyte), identification plate (screw)	1285200000

Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x75	4x58
4 mm <sup>2</sup>	3x65	3x49
6 mm <sup>2</sup>	3x48	3x37
10 mm <sup>2</sup>	2x39	3x30
16 mm <sup>2</sup>	2x32	2x24
35 mm <sup>2</sup>	1x24	2x18

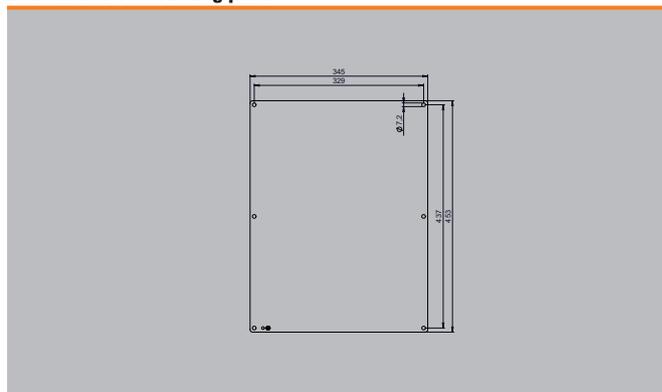
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	51	60
M16	39	45
M20	22	26
M25	18	20
M32	7	5
M40	5	4
M50	4	3
M63	3	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**



Klippon® TB MH 507620

Depth 200 mm



Height / Width / Depth 500 / 760 / 200 mm

Ordering data

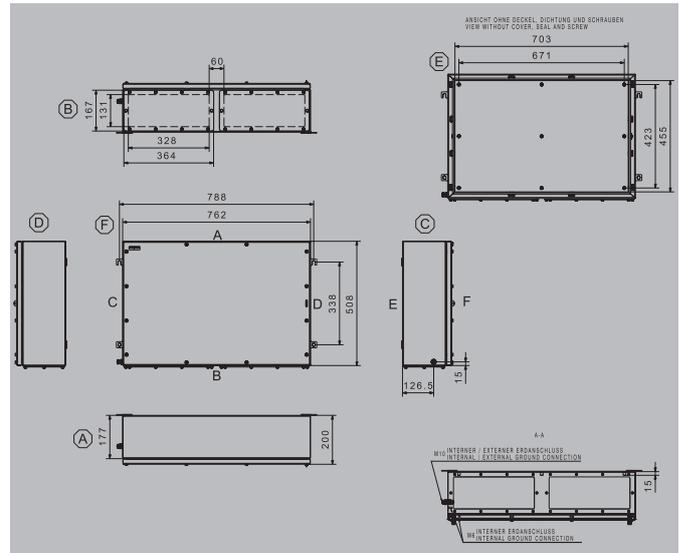
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	2698090000

Note Further gland plate configurations available on request.

Accessories

<b>Mounting plates</b>		Order No.
Steel sheet, zinc plated (ST/ZN)		2716120000
With hole pattern, sheet steel, galvanised		2716130000
<b>Mounting rails**</b> , TS35x7.5 (ST/ZN)		
	Horizontally	800006728
	Vertical	800006717
<b>Fastening screws</b>	Fastening screws for terminal rails*	1274150000
<b>Label holder</b>		
	100x25 stainless steel 1.4301	1257640000
	130x50 stainless steel 1.4301	1283450000
	70 x 70 angled stainless steel 1.4301	1279320000
<b>Set of fixings*</b>	For label holders, rain hoods and document holders (rivet)	1252190000
<b>Stainless steel document holders</b>		
	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
	For DIN A4 size documents	1252730000
<b>Set of fixings*</b>	For plastic (Trafolyte), identification plate (screw)	1285200000
<b>Earthing stud</b>	Stainless steel 1.4404, M10	1192690000

Note \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
\*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	7x82	4x132
4 mm <sup>2</sup>	6x69	4x111
6 mm <sup>2</sup>	5x52	3x83
10 mm <sup>2</sup>	5x42	3x67
16 mm <sup>2</sup>	4x35	2x56
35 mm <sup>2</sup>	3x26	2x42

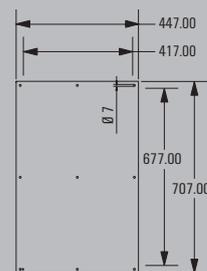
Note \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
Ordering recommendations:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
TS 32 Mounting rail with clamping yoke technology SAK  
TS 15 Mounting rail with clamping yoke technology AKZ  
Order information for terminal blocks, please refer to online catalogue.

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	96	70
M16	64	48
M20	40	32
M25	34	26
M32	18	14
M40	14	12
M50	6	5
M63	6	4
M75	4	3

Note Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate





Height / Width / Depth 550 / 350 / 150 mm

**Ordering data**

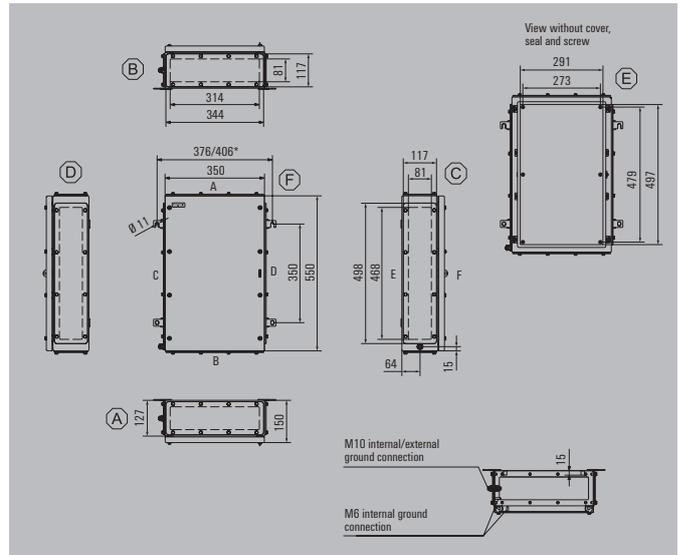
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195210000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195230000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194010000
With hole pattern, sheet steel, galvanised	2022650000
Stainless steel 1.4301, natural	1193880000
With hole pattern, natural stainless steel 1.4301	1257720000
Mounting rails**	TS35x7.5 (ST/ZN)
Horizontally	800006726
Vertically	800006715
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114900
Left and right sides (C & D), electropolished stainless steel 1.4404	2023670000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114154
Left and right sides (C & D), electropolished stainless steel 1.4404	1256580000
Mounting screw, stainless steel 1.4404	1253230000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x89	4x48
4 mm <sup>2</sup>	2x73	4x40
6 mm <sup>2</sup>	2x55	4x30
10 mm <sup>2</sup>	2x45	3x24
16 mm <sup>2</sup>	1x37	3x20
35 mm <sup>2</sup>	1x28	2x15

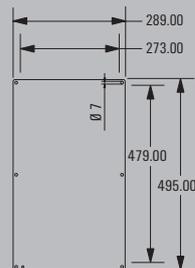
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	27	42
M16	15	24
M20	13	20
M25	6	9
M32	5	7
M40	4	6
M50	3	5
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 550 / 350 / 200 mm

**Ordering data**

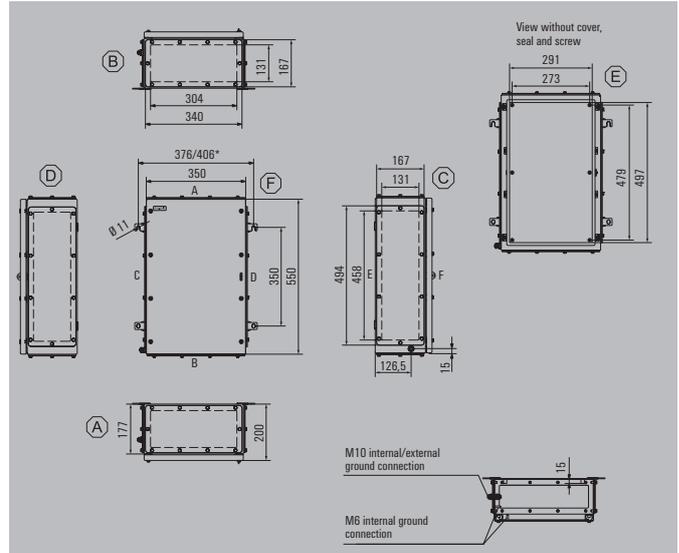
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195260000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195280000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194010000
With hole pattern, sheet steel, galvanised	2022650000
Stainless steel 1.4301, natural	1193880000
With hole pattern, natural stainless steel 1.4301	1257720000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006726
Vertical	800006715
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114905
Left and right sides (C & D), electropolished stainless steel 1.4404	2023790000
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114130
Left and right sides (C & D), electropolished stainless steel 1.4404	1256610000
Mounting screw, stainless steel 1.4404	1253230000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x89	4x48
4 mm <sup>2</sup>	2x73	4x40
6 mm <sup>2</sup>	2x55	4x30
10 mm <sup>2</sup>	2x45	3x24
16 mm <sup>2</sup>	1x37	3x20
35 mm <sup>2</sup>	1x28	2x15

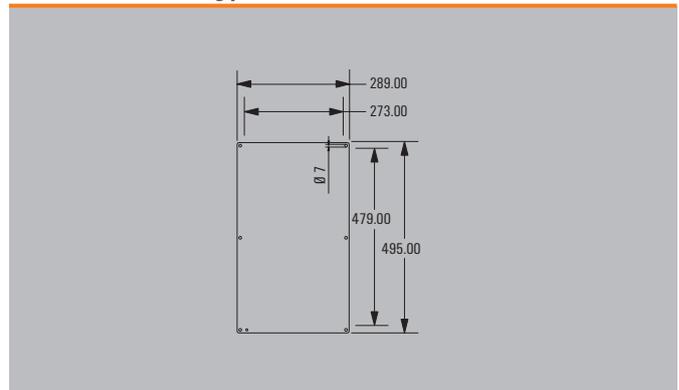
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	45	70
M16	30	48
M20	20	30
M25	17	26
M32	9	14
M40	7	12
M50	3	5
M63	3	4
M75	2	3

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 620 / 450 / 150 mm

**Ordering data**

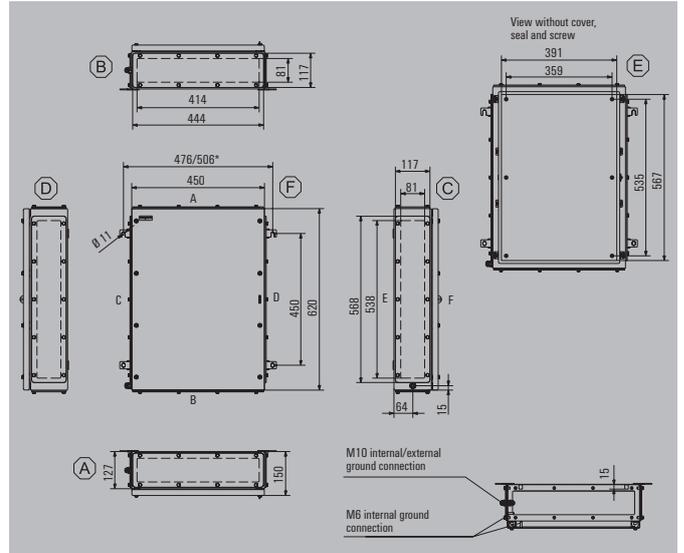
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195310000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195330000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates		Order No.
Steel sheet, zinc plated (ST/ZN)		1194020000
With hole pattern, sheet steel, galvanised		2022670000
Stainless steel 1.4301, natural		1193890000
With hole pattern, natural stainless steel 1.4301		1257740000
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006727
	Vertical	800006716
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023820000
	Gland plates and screws - 6 mm	
	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256620000
	Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Stainless steel 1.4404, electro-polished (rivet)	1314270000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
	For DIN A4 size documents	1252730000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical		horizontal
	vertical	horizontal	
	2.5 mm <sup>2</sup>	3x101	5x65
	4 mm <sup>2</sup>	3x83	5x54
	6 mm <sup>2</sup>	3x62	4x41
	10 mm <sup>2</sup>	2x49	4x33
	16 mm <sup>2</sup>	2x42	3x26
	35 mm <sup>2</sup>	1x31	2x20

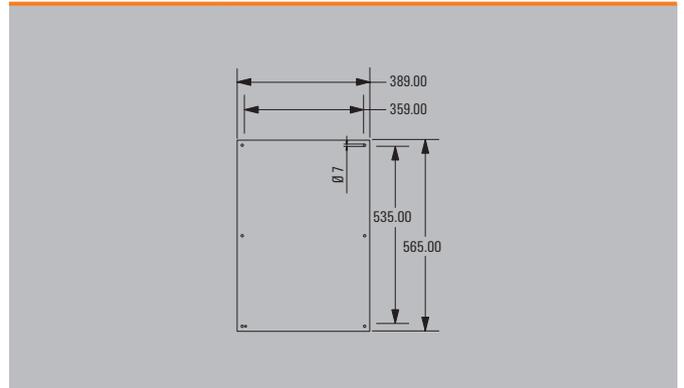
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D	
	M12	38	48
	M16	21	27
	M20	18	24
	M25	8	10
	M32	6	9
	M40	5	7
	M50	4	6
	M63	0	0
	M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 620 / 450 / 200 mm

**Ordering data**

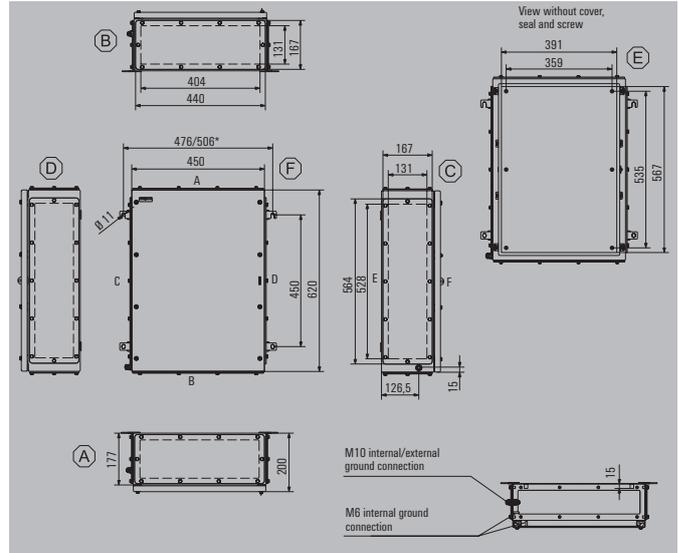
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195360000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195380000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194020000
With hole pattern, sheet steel, galvanised	2022670000
Stainless steel 1.4301, natural	1193890000
With hole pattern, natural stainless steel 1.4301	1257740000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006727
Vertical	800006716
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2023880000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023930000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256640000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114141
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314280000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x101	5x65
4 mm <sup>2</sup>	3x83	5x54
6 mm <sup>2</sup>	3x62	4x41
10 mm <sup>2</sup>	2x49	4x33
16 mm <sup>2</sup>	2x42	3x26
35 mm <sup>2</sup>	1x31	2x20

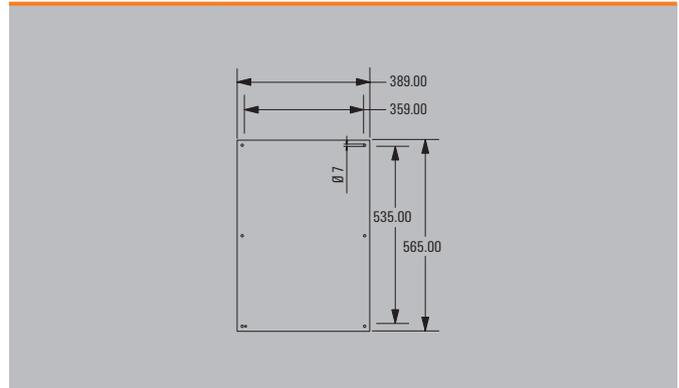
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	63	80
M16	42	54
M20	27	36
M25	23	30
M32	12	17
M40	10	14
M50	4	6
M63	4	5
M75	3	4

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 620 / 508 / 200 mm

**Ordering data**

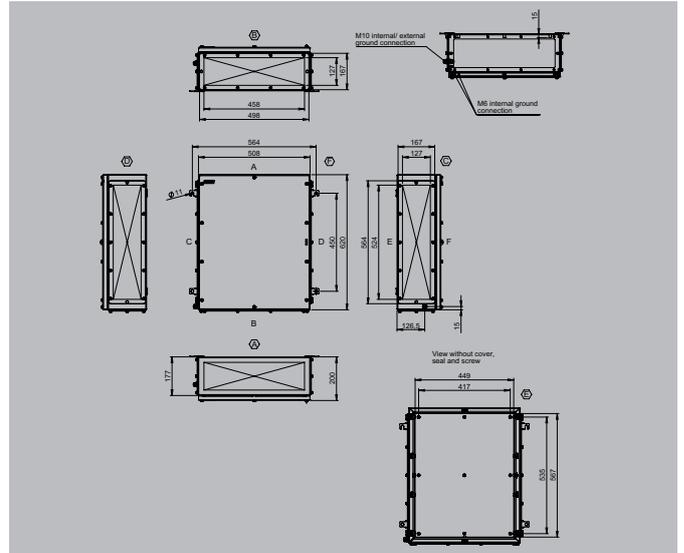
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	8000108859
3 gland plates - positioned at bottom, left and right (B, C & D)	8000108860

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000110199
With hole pattern, sheet steel, galvanised	8000115918
With hole pattern, natural stainless steel 1.4301	8000115907
Mounting rails**	TS35x7.5 (ST/ZN)
Horizontally	8000116114
Vertical	8000116104
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114894
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114891
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114145
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114141
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	8000115032
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x101	5x78
4 mm <sup>2</sup>	3x83	5x65
6 mm <sup>2</sup>	3x62	4x48
10 mm <sup>2</sup>	3x49	4x38
16 mm <sup>2</sup>	2x42	3x32
35 mm <sup>2</sup>	2x31	2x24

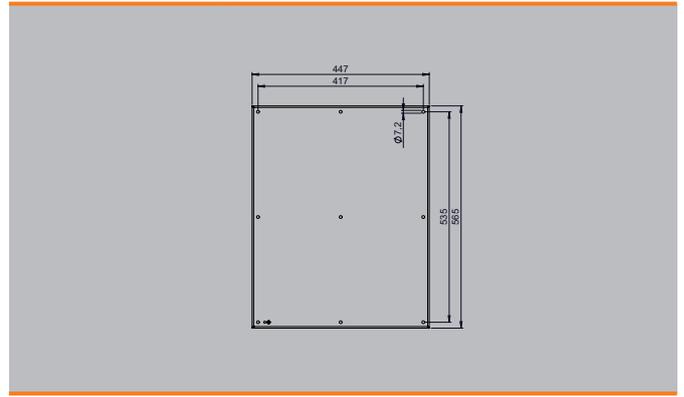
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	66	75
M16	30	60
M20	28	32
M25	22	26
M32	9	10
M40	7	8
M50	6	6
M63	4	5
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**







Height / Width / Depth 762 / 508 / 150 mm

**Ordering data**

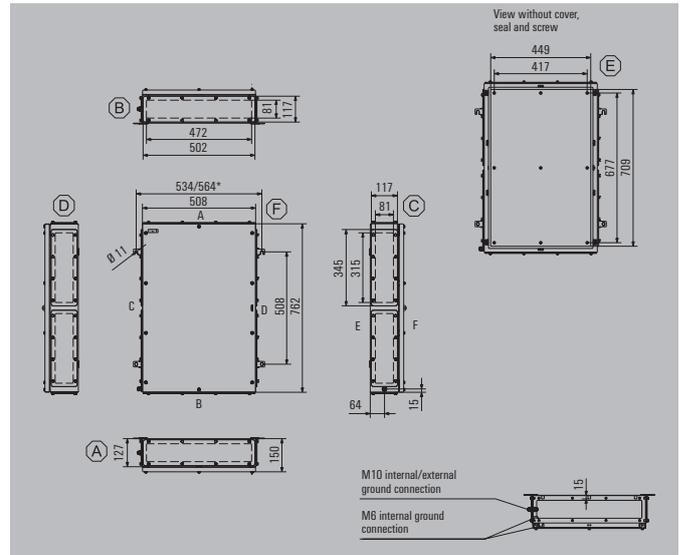
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195410000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195430000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.	
Steel sheet, zinc plated (ST/ZN)	1194030000	
With hole pattern, sheet steel, galvanised	2022680000	
Stainless steel 1.4301, natural	1193900000	
With hole pattern, natural stainless steel 1.4301	1257750000	
Mounting rails**, TS35x7.5 (ST/ZN)	Horizontally	800006728
	Vertical	800006717
Fastening screws	Fastening screws for mounting plates	0642600000
	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114892
	Gland plates and screws - 6 mm	
Gland plates and screws - 6 mm	Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114142
	Mounting screw, stainless steel 1.4404	1253230000
Label holder	70 x 70 angled stainless steel 1.4301	1279320000
	130x50 stainless steel 1.4301	1283450000
	100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	For DIN A6 size documents	1252780000
	For DIN A5 size documents	1252750000
	For DIN A4 size documents	1252730000
Set of fixings*	For label holders, rain hoods and document holders (rivet)	1252190000
	For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x128	7x78
4 mm <sup>2</sup>	4x107	6x64
6 mm <sup>2</sup>	3x80	5x48
10 mm <sup>2</sup>	3x65	5x39
16 mm <sup>2</sup>	2x53	4x32
35 mm <sup>2</sup>	2x40	3x24

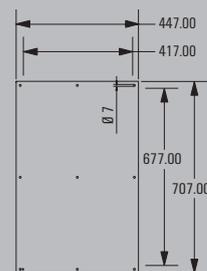
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	42	58
M16	24	32
M20	21	26
M25	9	12
M32	7	10
M40	6	8
M50	5	6
M63	0	0
M75	0	0

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 762 / 508 / 200 mm

**Ordering data**

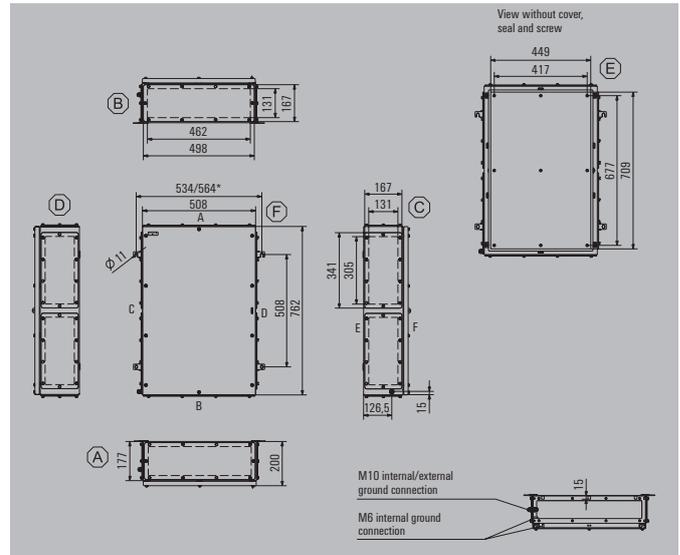
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195460000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195480000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194030000
With hole pattern, sheet steel, galvanised	2022680000
Stainless steel 1.4301, natural	1193900000
With hole pattern, natural stainless steel 1.4301	1257750000
Mounting rails**	TS35x7.5 (ST/ZN)
Horizontally	800006728
Vertically	800006717
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114894
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114903
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114145
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114152
Mounting screw, stainless steel 1.4404	1253230000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x128	7x78
4 mm <sup>2</sup>	4x107	6x64
6 mm <sup>2</sup>	3x80	5x48
10 mm <sup>2</sup>	3x65	5x39
16 mm <sup>2</sup>	2x53	4x32
35 mm <sup>2</sup>	2x40	3x24

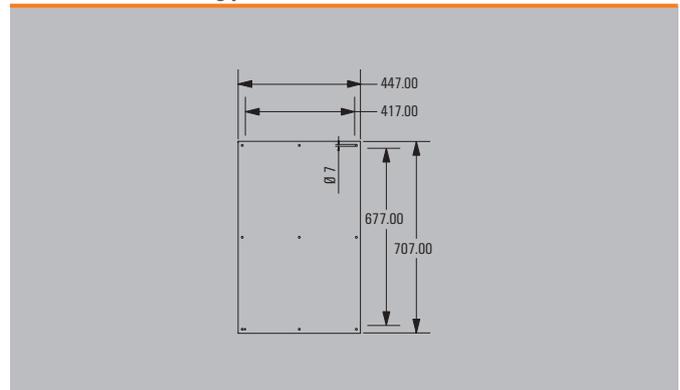
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	70	96
M16	48	64
M20	32	40
M25	26	34
M32	14	18
M40	12	14
M50	5	6
M63	4	6
M75	3	4

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**







Height / Width / Depth 914 / 610 / 200 mm

**Ordering data**

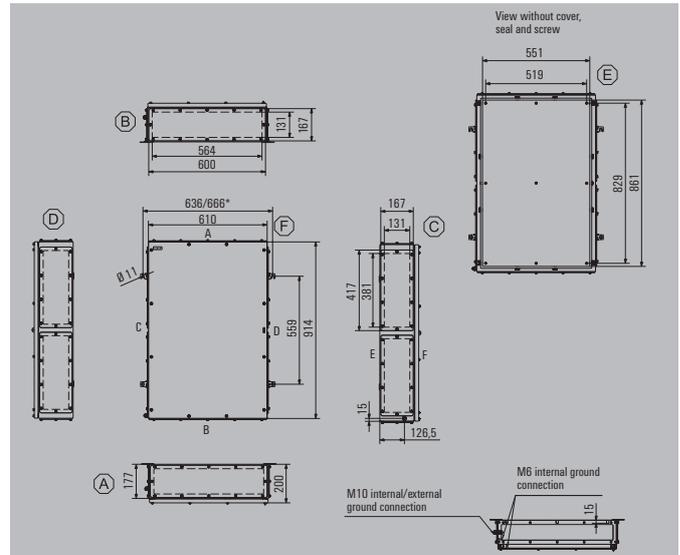
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195560000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195580000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194040000
With hole pattern, sheet steel, galvanised	2022740000
Stainless steel 1.4301, natural	1193910000
With hole pattern, natural stainless steel 1.4301	1257760000
Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	800006729
Vertically	800006718
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	2024470000
Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256730000
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114148
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	1314330000
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	5x157	8x99
4 mm <sup>2</sup>	4x132	7x80
6 mm <sup>2</sup>	4x100	7x62
10 mm <sup>2</sup>	3x85	6x50
16 mm <sup>2</sup>	3x66	5x40
35 mm <sup>2</sup>	2x49	4x30

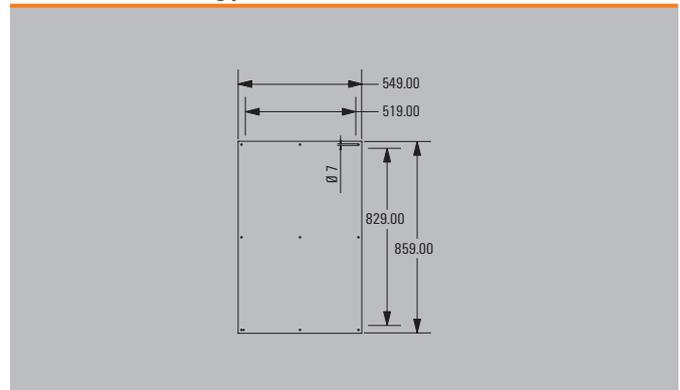
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	88	116
M16	58	80
M20	38	52
M25	33	42
M32	18	24
M40	15	20
M50	6	8
M63	5	6
M75	4	6

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





Height / Width / Depth 914 / 762 / 200 mm

**Ordering data**

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	8000108877
3 gland plates - positioned at bottom, left and right (B, C & D)	8000108879

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000116040
With hole pattern, sheet steel, galvanised	8000115921
Stainless steel 1.4301, natural	8000115931
With hole pattern, natural stainless steel 1.4301	8000115910

Mounting rails**, TS35x7.5 (ST/ZN)	Order No.
Horizontally	8000116117
Vertical	8000116107

Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000

Stainless steel spacer M6 x 8, Set of 4	Order No.
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000

Gland plates - 3 mm with M6 earth studs	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114904
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114897

Gland plates and screws - 6 mm	Order No.
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	8000114153
Left and right sides (C & D), electropolished stainless steel 1.4404	8000114148
Mounting screw, stainless steel 1.4404	1253230000

Rain hoods	Order No.
Stainless steel 1.4404, electro-polished (rivet)	8000115036

Set of fixings*	Order No.
For label holders, rain hoods and document holders (rivet)	1252190000

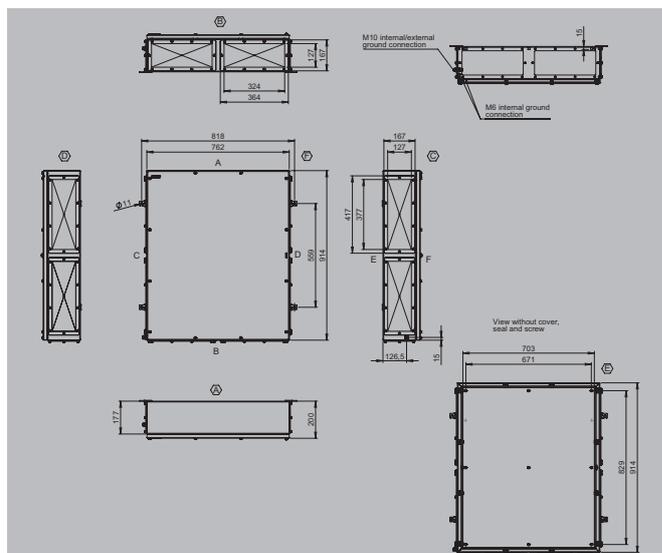
Label holder	Order No.
70 x 70 angled stainless steel 1.4301	1279320000

Stainless steel document holders	Order No.
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000

Set of fixings*	Order No.
For plastic (Trafolyte), identification plate (screw)	1285200000

Earthing stud	Order No.
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	7x157	8x128
4 mm <sup>2</sup>	6x132	7x107
6 mm <sup>2</sup>	5x100	7x80
10 mm <sup>2</sup>	5x85	6x65
16 mm <sup>2</sup>	4x66	5x53
35 mm <sup>2</sup>	3x49	4x40

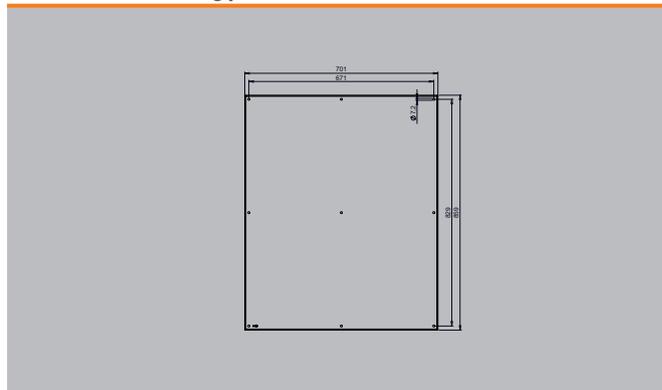
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	150	180
M16	120	112
M20	80	88
M25	48	54
M32	24	28
M40	20	24
M50	8	8
M63	6	6
M75	4	6

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**







980 / 740 / 200 mm

**Ordering data**

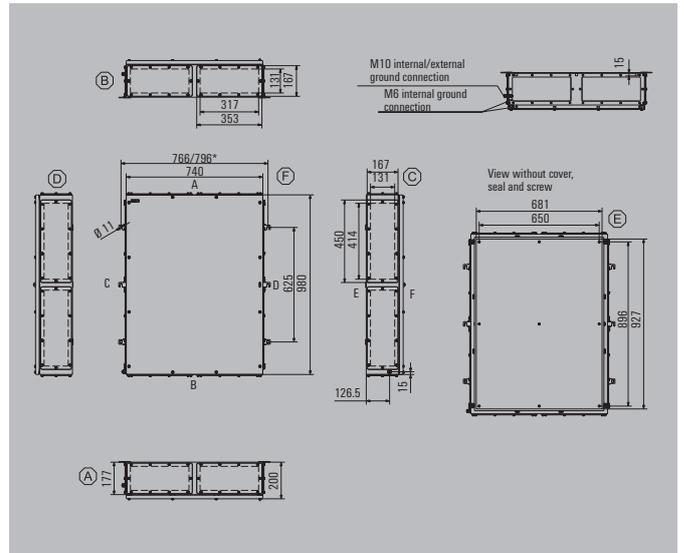
Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned at the bottom (B)	1195610000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195630000

**Note** Further gland plate configurations available on request.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	1194050000
With hole pattern, sheet steel, galvanised	2022760000
Stainless steel 1.4301, natural	1193920000
With hole pattern, natural stainless steel 1.4301	1257770000
Mounting rails**, TS35x7.5 (ST/ZN)	
Horizontally	800006730
Vertical	800006719
Fastening screws	
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Left and right sides (C & D), electropolished stainless steel 1.4404	2024590000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished, stainless steel 1.4404	1256750000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256760000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4404, electro-polished (rivet)	1314340000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Stainless steel document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

**Note** \*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures  
 \*\*Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	6x174	9x127
4 mm <sup>2</sup>	6x146	8x99
6 mm <sup>2</sup>	5x108	7x78
10 mm <sup>2</sup>	4x85	6x63
16 mm <sup>2</sup>	4x72	5x51
35 mm <sup>2</sup>	3x54	4x38

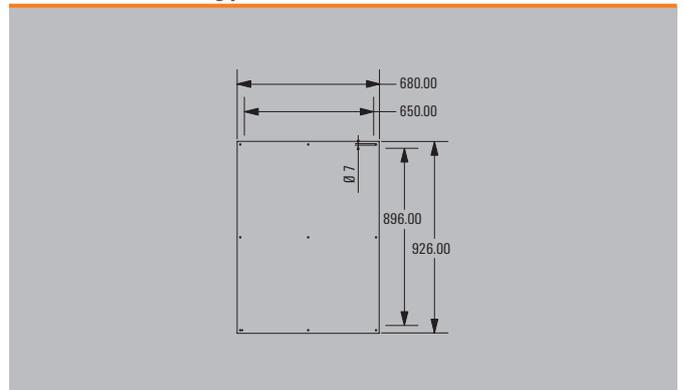
**Note** \*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.  
 When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail.  
 Ordering recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	96	126
M16	64	84
M20	42	54
M25	36	48
M32	20	26
M40	16	22
M50	6	10
M63	6	8
M75	4	6

**Note** Our IP 68 brass cable glands serve as a reference for these recommended values.

**Dimensions of mounting plate**





## Klippon® TB QL – Quarter Lock

### Stainless steel enclosures for industrial areas and potentially explosive atmospheres

The potentially explosive atmospheres of process industry and power generation plants are subject to difficult environmental conditions and growing safety requirements. With their outstanding performance features, Klippon® TB enclosures are ideally suited to meet these challenges. The tried-and-tested and market-leading product range has now been improved in a number of ways.

We manufacture and deliver the enclosures according to your individual requirements – fully assembled with terminal blocks, electronic components and cable glands.

#### Features:

- Available in 22 standard sizes with 3 standard depths
- Custom sizes available on request
- Equipped with up to four flange plates
- Gasket with compression protection
- Cover quick release with slot
- Improved temperature performance
- High IP66 protection class
- Integrated earth studs in the cover and lower section
- Welded mounting feet



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klippontb](http://www.weidmueller.com/klippontb)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

## Overview of enclosures

## Ordering data

Description	Height x width x depth	1 Gland Plate (below)	3 Gland plates (below + sides)
KTB QL 221513 S4E_*	229 x 152 x 133	1199860000	1199880000
KTB QL 262615 S4E_*	260 x 260 x 150	1199910000	1199930000
KTB QL 262620 S4E_*	260 x 260 x 200	1199960000	1199980000
KTB QL 302015 S4E_*	306 x 203 x 150	8000109885	8000109886
KTB QL 303015 S4E_*	306 x 306 x 150	1200020000	1200040000
KTB QL 303020 S4E_*	306 x 306 x 200	1200070000	1200090000
KTB QL 352615 S4E_*	350 x 260 x 150	1200120000	1200140000
KTB QL 352620 S4E_*	350 x 260 x 200	1200170000	1200190000
KTB QL 353520 S4E_*	350 x 350 x 200	8000109891	8000109892
KTB QL 403015 S4E_*	400 x 300 x 150	1200230000	1200250000
KTB QL 403020 S4E_*	400 x 300 x 200	1200280000	1200310000
KTB QL 404020 S4E_*	406 x 406 x 200	8000109897	8000109898
KTB QL 453815 S4E_*	458 x 382 x 150	1200340000	1200360000
KTB QL 453820 S4E_*	458 x 382 x 200	1200390000	1200420000
KTB QL 484815 S4E_*	480 x 480 x 150	1200450000	1200470000
KTB QL 484820 S4E_*	480 x 480 x 200	1200510000	1200530000
KTB QL 504020 S4E_*	508 x 406 x 200	8000109903	8000109904
KTB QL 553515 S4E_*	550 x 350 x 150	1200560000	1200580000
KTB QL 553520 S4E_*	550 x 350 x 200	1200620000	1200640000
KTB QL 624515 S4E_*	620 x 450 x 150	1200670000	1200690000
KTB QL 624520 S4E_*	620 x 450 x 200	1200730000	1200750000
KTB QL 625020 S4E_*	620 x 508 x 200	8000109912	8000109913
KTB QL 626220 S4E_*	620 x 620 x 200	8000109918	8000109919
KTB QL 765015 S4E_*	762 x 508 x 150	1200780000	1200810000
KTB QL 765020 S4E_*	762 x 508 x 200	1200840000	1200860000
KTB QL 766215 S4E_*	760 x 620 x 150	8000109921	8000109922
KTB QL 916120 S4E_*	914 x 610 x 200	1200950000	1200970000
KTB QL 987420 S4E_*	980 x 740 x 200	1201010000	1201030000
<b>Note</b>	* Placeholder for the number of gland plates (1, 3). Other sizes and variants on request.		

Technical Overview

Technical data

Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	electropolished
IP protection class	IP66 to DIN EN 60529
NEMA protection classes	3, 4x, 12
Gland plates	1 or 3 (fixed with M6 hexagon head screws with 10 mm heads)
Gland plate thickness	3 mm (other thickness are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail
Enclosure attachment	4 or 6 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	Lid can be fully removed without the use of tools, can be fitted on both sides, lid opening angle: 130°
Cover attachment	Quarter-turn lock with slotted insert (other inserts available on request)
Impact resistance	7 J to IEC 60079-0, IK 09 (10J) to DIN EN 50102
Gasket material	Silicone
Operating temperature range	-60 °C...+135 °C
Torque – lid and gland plate screws	2.5 Nm
<b>Note</b>	* Painted enclosures are available on request.

Approvals for empty enclosures

ATEX certificate	IBExU14ATEX1028 U	cULus	E243298
ATEX marking	II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db	DNV	TAED00013S
IECEx certificate	IECEx IBE 14.0004U	CCOE	P461058_1
IECEx marking	Ex eb IIC Gb Ex tb IIIC Db	INMETRO	LMP 21.0017
CCCEX certificate	2020322303002357	AEx	E223792
CCCEX marking	Ex e IIC Gb, Ex tD A21 IP66/67	Miscellaneous	EN 45545, DIN EN 15085-2/CL2
<b>Note</b>	The Klippon® TB enclosure range can be pre-fitted in our customer specific production department according to your wishes.		

Approvals for control and distribution box

ATEX certificate	IBExU14ATEX1050	IECEx certificate	IECEx IBE 14.0013
ATEX marking	⊕ II 2G Ex eb IIC/IIB/IIA T6/T5/T4 Gb ⊕ II 1G Ex ia IIC/IIB/IIA T6/T5/T4 Ga ⊕ II 2G Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb ⊕ II 2D Ex tb IIIC T80°C/T95°C/T135°C Db ⊕ II 1D Ex ia IIIC T80°C/T95°C/T135°C Da -60 °C ≤ Ta ≤ +40/+55/+90 °C	IECEx marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T135°C Db Ex ia IIIC T80°C/T95°C/T135°C Da -60 °C...+40/+55/+90 °C
CCCEX certificate	2020322303002358	INMETRO certificate	IEx 17.0021
CCCEX marking	Ex e IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex e ia IIC/IIB/IIA T6/T5/T4 Gb	INMETRO marking	Ex eb IIC T6/T5/T4 Gb Ex ia IIC T6/T5/T4 Ga Ex eb ia IIC T6/T5/T4 Gb Ex tb IIIC 85°C/100°C/135°C Db IP66/IP67 Ex ia IIIC 85°C/100°C/135°C Da
KOSHA certificate	16-AV4B0-0245X	AEx certificate	E223792
KOSHA marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T135°C Db Ex ia IIIC T80°C/T95°C/T135°C Da -60 °C...+40/+55/+90 °C	AEx marking	Class I, Zone 1, AEx e IIC Gb T6...T4 Class I, Zone 2, AEx e IIC Gc T6...T4 Class I Div.2 Group A,B,C,D T6...T4 Class II Div.2 Group F,G Zone 21, AEx tb IIIC Db
<b>Note</b>	Labelling depends on the application layout. For information about power loss, please contact your Weidmüller contact person. Additional approvals available on request.		



# Klippon® TB Large

## Certified control enclosure for industrial and Ex applications

Whether indoors or outdoors: To ensure installation components function reliably over the long term in harsh environments, they must be optimally protected from environmental influences. Our high-size enclosures meet the most stringent requirements and are well-thought-out down to the last detail.

We offer you DCS (Decentralised Control Station) enclosures and terminal boxes for potentially explosive atmospheres or safety-relevant areas in mechanical engineering and the process industry. All products are manufactured from high-quality stainless steel and are available in three standard sizes. They comply with protection classes IP66 and type 4x, are temperature-resistant from -50 °C to +135 °C and meet the global standards ATEX, IECEx and cULus.

### Features:

- Manufactured from corrosion-resistant stainless steel 316L
- In accordance with international standards such as IEC 62208, IECEx, ATEX and cULus
- Extremely temperature-resistant silicone seals
- Stainless steel compression locks with IP66 for soft and secure closing
- Custom manufacture of intermediate sizes possible
- Optional benefits and services, e.g. installation, wiring, testing and certification



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponlarge](http://www.weidmueller.com/klipponlarge)

### Overview of enclosures

#### Ordering data

Description	Height x width x depth in mm	Order No.
KTBLQL1005030S4B1 LL1	1000 x 500 x 300	2698400000
KTBLQL1258040S4B1 LL1	1250 x 800 x 400	2698420000
KTBLQL15010050S4B1 LL1	1500 x 1000 x 500	2698430000
<b>Note</b>		



**Doorstop** - To prevent the door from being blown closed while performing maintenance work



**Support wheel** - For easy door closing



**Document holder** - Size A4 and made of stainless steel 1.4404 (316L)

## Technical Overview

### Technical data

Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	brushed (K240)
IP protection class	IP66 to DIN EN 60529
NEMA protection classes	3, 4x, 12
Gland plates	1 (fixed with M6 hexagonal screws with 10 mm spanner size), optionally without flange plates
Gland plate thickness	3 mm (other thickness are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 9 mounting bolts with M8 threaded holes to attach the mounting plate or mounting rail
Enclosure attachment	4 or 6 welded mounting feet with 14 mm holes
Lid opening	Cover opening angle 110°
Cover attachment	Double quarter lock (180° turn lock) with spring loading (180° rotation), compression lock
Impact resistance	7J to IEC 60079-0, IK 09 (10J) to DIN EN 50102
Gasket material	Silicone
Operating temperature range	-50 °C to +135 °C
Torque – lid and gland plate screws	2.5 Nm
<b>Note</b>	* Painted enclosures are available on request. additional properties: doorstop, auxiliary wheel for easy door closing, rain hood, document holder, pad eyes, QL key, door handle, auxiliary frame in the door, seal compression protection

### Approvals for empty enclosures

ATEX certificate	CML 20ATEX3029U	CCCEx certificate	2020322303002357
ATEX marking	II 2G Ex eb IIC Gb T <sub>s</sub> = -50°C to +135°C	CCCEx marking	Ex e IIC Gb, Ex tD A21 IP66/67
IECEX certificate	IECEX NEP 20.0005U	cULus	E508186
IECEX marking	Ex eb Ex eb IIC Gb IP66 T <sub>service</sub> : -50°C~+135°C	INMETRO	LMP 23.0529X
<b>Note</b>	The Klippon® TBL enclosure range can be pre-fitted in our customer specific production department according to your wishes.		

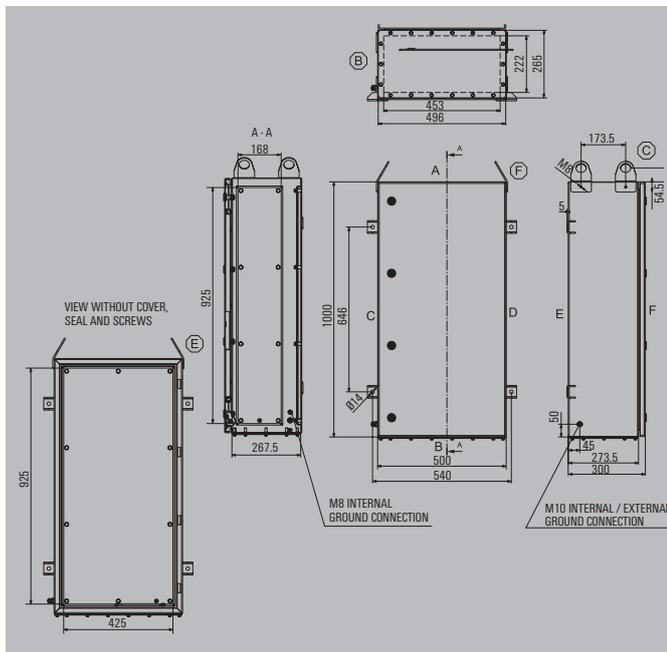
**Klippon® TB L QL 1005030**

**Depth 300 mm**



**Klippon® TB L QL 1258040**

**Depth 400 mm**



Height / Width / Depth 1000 / 500 / 300 mm

**Ordering data**

Stainless steel 1.4404 316L, brushed	Order No.
1 gland plate - positioned at the bottom (B)	<b>2698400000</b>

Note

**Guide value for max. number of cable entries**

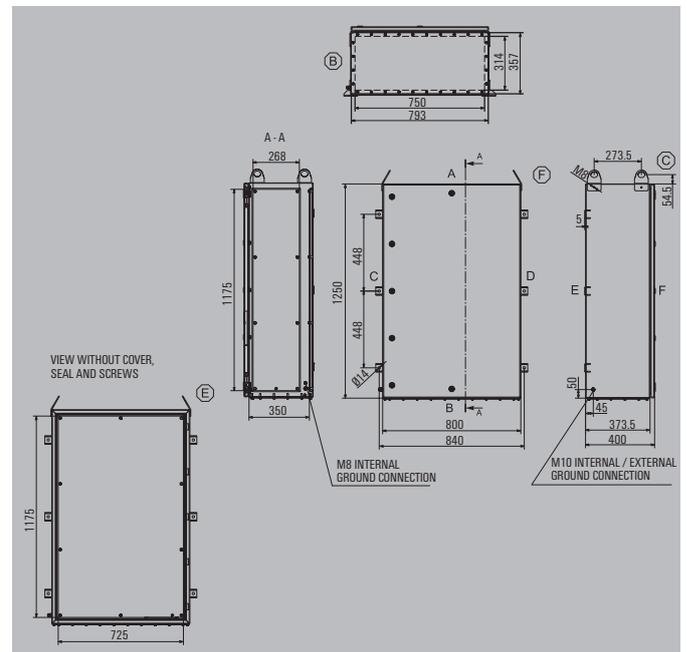
Cable entries	A / B
M12	220
M16	149
M20	116
M25	84
M32	50
M40	36
M50	28
M63	18
M75	10

Note

**Accessories**

Rain hoods	Order No.
Stainless steel 1.4404 316L, brushed	<b>2698520000</b>

Note Individual enclosure sizes on request.



Height / Width / Depth 1250 / 800 / 400 mm

**Ordering data**

Stainless steel 1.4404 316L, brushed	Order No.
1 gland plate - positioned at the bottom (B)	<b>2698420000</b>

Note

**Guide value for max. number of cable entries**

Cable entries	A / B
M12	536
M16	364
M20	270
M25	205
M32	136
M40	102
M50	60
M63	40
M75	32

Note

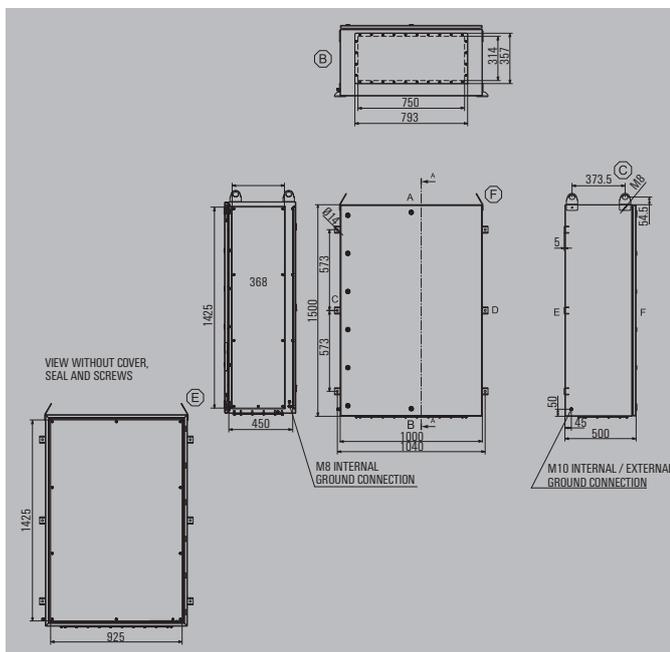
**Accessories**

Rain hoods	Order No.
Stainless steel 1.4404 316L, brushed	<b>2698530000</b>

Note Individual enclosure sizes on request.

Klippon® TB L QL 15010050

Depth 500 mm



Height / Width / Depth 1500 / 1000 / 500 mm

**Ordering data**

Stainless steel 1.4404 316L, brushed	Order No.
1 gland plate - positioned at the bottom (B)	<b>2698430000</b>

**Note**

**Guide value for max. number of cable entries**

Cable entries	A / B
M12	536
M16	364
M20	270
M25	205
M32	136
M40	102
M50	60
M63	40
M75	32

**Note**

**Accessories**

Rain hoods	Order No.
Stainless steel 1.4404 316L, brushed	<b>2698540000</b>

**Note** Individual enclosure sizes on request.

# Implementing high safety requirements economically

## Klippon® EBi stainless steel enclosures for industrial applications

**C** The new Klippon® EBi enclosure series has been specially designed for use in challenging environments. It reliably meets all requirements for use in harsh environments and is characterised by attractive performance features. The cost-effective stainless steel enclosures allow a very economical calculation and are also suitable for projects with a limited budget. The Klippon® EBi is ideal for industrial applications.

In addition to our Klippon® EBi- series, our premium Klippon® TB enclosure series is the perfect choice for applications with the highest requirements.

### Your special advantage

- High impact resistance
- The robust seals are additionally protected by a pressure control system
- Water ingress is prevented by a guided water drainage system
- High protection class (IP66)
- Robust enclosure cover with hinge screws (HS) or quarter lock (QL) system
- Easy adaptation of the standard enclosure for customer projects possible



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponeb](http://www.weidmueller.com/klipponeb)



**Seal with compression protection**  
 Integrated compression protection reduces stress on the seal, prevents leakage and increases service life.

**Rain gutter**  
 A guided drainage system reliably prevents the ingress of water.

**Customization in the Weidmüller Configurator WMC**  
 The Weidmüller Configurator supports you step-by-step as you select and configure your assembled enclosure including accessories.



# Perfect protection for your components

## Klippon® EBi stainless steel enclosures for industrial applications

**C** Industrial environments place high demands on the enclosures. Even moderate environmental conditions require sophisticated measures for protecting the internal components from dust and moisture to ensure trouble-free operation.

Klippon® EBi stainless steel enclosures provide perfect protection for instrumentation, distribution, and control applications. All versions are dust- and water ingress-proof to IP66 or NEMA 4X and impact-resistant to IK09. They are made of durable 1.4301 stainless steel and comply with the latest international standards. The Klippon® EBi enclosures are available with or without a bottom gland plate. Lid fixing options include either a quarter lock (QL) as standard or a fixing screw (FS) version which is available on a request basis.

### Your special advantages:

- Protection class IP66 / NEMA 4X
- Impact resistance according to IK09
- International conformity according to EN 62208
- Operating temperatures from -40 °C to +85 °C
- PUR cover gasket for protection and safety
- Flexible wall assembly thanks to rear mounting holes or mounting feet (optional)
- Individual configuration supported by the Weidmüller Configurator (WMC)



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponebi](http://www.weidmueller.com/klipponebi)



#### Quarter Lock Insert

Hinged door with a quarter lock facility ensures safe and easy accessibility. If required, hinges can be placed on either side of the enclosure to support side by side placement.



#### Gland plate with TRX screws

TRX screws (M5/T20) are used for gland plate mounting to facilitate compliance with the required torque.



#### Flexible mounting

A dedicated mounting profile facilitates the flexible, simple and secure installation of mounting rails or mounting plates for component installation within the enclosure.

# Klippon® EBi – Integrate, expand, and customise: The perfect supplement to every application

The fully structured range of system accessories for the Klippon® EBi enclosure range allows you to easily adapt the enclosure to meet the specific requirements of every application.

The following options are available:

## 1 Document holder

Document holders for storage of important documents in the enclosure.

## 2 Earthing studs

External earthing stud as a complete component, in two versions: Brass and stainless steel

## 3 Gland plates

Flange plates in two thicknesses designed for easy on -replacement.

## 4 Mounting plates

Mounting plates with and without a drilling pattern, for horizontal and vertical mounting of rails, or components fitted directly.

## 5 Mounting hardware kits

Mounting hardware kits are available for quick and easy installation of label holders, mounting plates, gland plates, document holders, and rain hoods.

## 6 Type label holder

A range of nameplate holders are available for the prominent display of required and additional nameplates.

## 7 Rain hoods

The rain hood provides an ideal, additional level of protection for the enclosure. Particularly useful against heavy rainfall or extreme levels of direct sunlight.

## 8 Viewing window in the enclosure cover

Viewing window in the enclosure cover for the easy monitoring of active components or operating status.

## 9 Laboratory tests

Thanks to our accredited laboratory, we can carry further customised tests and approvals.



# Klippon® EBi QL – Quarter Lock

## Stainless steel enclosures for use within harsh industrial environments

Even under moderate environmental conditions, there is an increasing need for complex, individual automated solutions. A harsh industrial environment places additional, heavy demands on applications and determines the design of the industrial enclosures to meet these demands. With complete protection and excellent durability, our Klippon® EBi stainless steel enclosures offer the best protection for the components inside them.

- Available in 12 sizes and 2 depths
- Impact resistance IK09 (10J) in accordance with DIN EN 50102 for industrial applications
- Dedicated internal mounting support bracket for fixing terminal rail or mounting plates with self forming screws
- Concealed hinges
- Supplied in 0 or 1 gland plate version
- Direct enclosure mounting is provided via the fixing positions placed into the rear of the enclosure
- Mounting feet in stainless steel are optionally available and can be rotated 90°
- Dust and moisture channel
- Double-bit locking system

Our assembly service can supply these enclosure preassembled with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponebi](http://www.weidmueller.com/klipponebi)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

## Overview of enclosures

### Ordering data

Description	Height x width x depth in mm	0 Gland Plate	1 Gland Plate (below)
KEBi QL 202015 S2N_*	200 x 200 x 150	8000090356	8000090362
KEBi QL 302015 S2N_*	300 x 200 x 150	8000133638	
KEBi QL 303015 S2N_*	300 x 300 x 150	8000090357	8000090363
KEBi QL 303020 S2N_*	300 x 300 x 200	8000090358	8000090364
KEBi QL 304020 S2N_*	300 x 400 x 200	8000133639	
KEBi QL 403020 S2N_*	400 x 300 x 200	8000090359	8000090365
KEBi QL 404020 S2N_*	400 x 400 x 200	8000090360	8000090366
KEBi QL 504020 S2N_*	500 x 400 x 200	8000090361	8000090367
KEBi QL 505020 S2N_*	500 x 500 x 200	8000133640	
KEBi QL 604020 S2N_*	600 x 400 x 200	8000133641	
KEBi QL 606020 S2N_*	600 x 600 x 200	8000133642	
KEBi QL 806020 S2N_*	800 x 600 x 200	8000133643	
<b>Note</b>	*Placeholder for the number of gland plates (0 or 1)		

## Technical Overview

### Features

- Available in 12 sizes and 2 standard depths
- Welded mounting bracket for securing the mounting plate or mounting rail by means of self-tapping screws
- External earth - M6 earth rivet
- Concealed hinges
- M6 earthing bolt welded in the cover and base of the enclosure
- Available with 0 or 1 gland plates
- Optimised laser welding, high quality standard
- Direct mounting of the enclosure with rear mounting holes
- Mounting feet in stainless steel are optionally available, and can be rotated by 90°
- Moisture and dust channel
- Double-bit locking system
- Permanent labelling of items
- Key included for sash lock
- Packaging optimally designed for enclosure

#### Note

### Technical data

Material	Stainless steel 1.4301 (304) 1.5 mm
Surface	untreated
IP protection class	IP 66 to DIN EN 60529
Gland plates	Stainless steel 1.4301 (304) 3 mm, fitted with M5 TRX T20 screws
Earthing inside	Welded-on M6 stainless-steel earth stud in enclosure lid and base
Earthing outside	External earth position - suitable for M6 threaded screw
Enclosure attachment	Direct mounting (9 mm mounting holes on rear wall) or via mounting feet (optionally available), adjustable by 90°
Lid opening	125°
Lid fixing	Quarter lock with double bit
Impact resistance	IK09 (10J) to DIN EN 50102
Gasket material	Chloroprene
Operating temperature range	-40 °C ... +85 °C
Tightening torque of gland plates screws*	2.5 Nm
<b>Note</b>	*SD T20 Screwdriver (2749520000) optionally available

### Approvals for empty enclosures

Empty enclosure standard	DIN EN 62208
<b>Note</b>	For details of power dissipation, please contact your Weidmüller representative.



Height / Width / Depth 200 / 200 / 150 mm

**Ordering data**

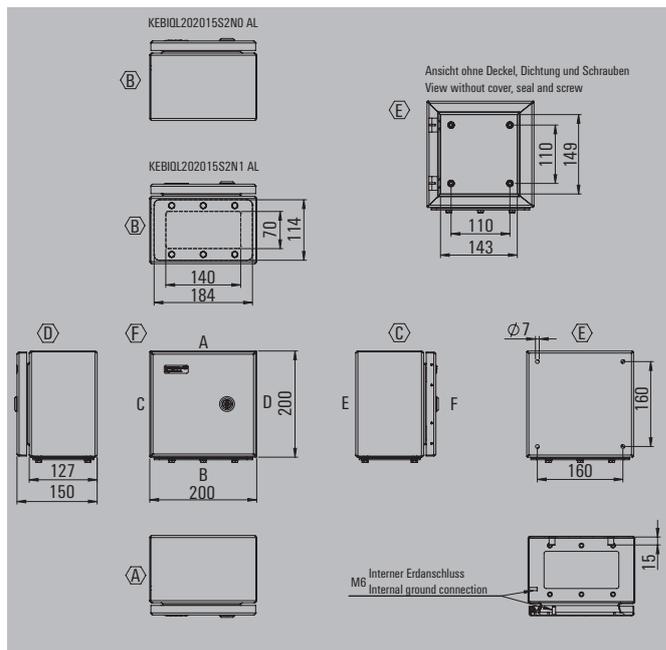
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090356
1 gland plate - positioned at the bottom (B)	8000090362

Note

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074117
With hole pattern, natural stainless steel 1.4301	8000074314
Mounting rails, TS35x7.5	
Horizontally	8000078661
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Double-bit key	2473930000

Note \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x22	1x22
4 mm <sup>2</sup>	1x18	1x18
6 mm <sup>2</sup>	1x13	1x13
10 mm <sup>2</sup>	1x10	1x10
16 mm <sup>2</sup>	1x8	1x8
35 mm <sup>2</sup>	1x6	1x6



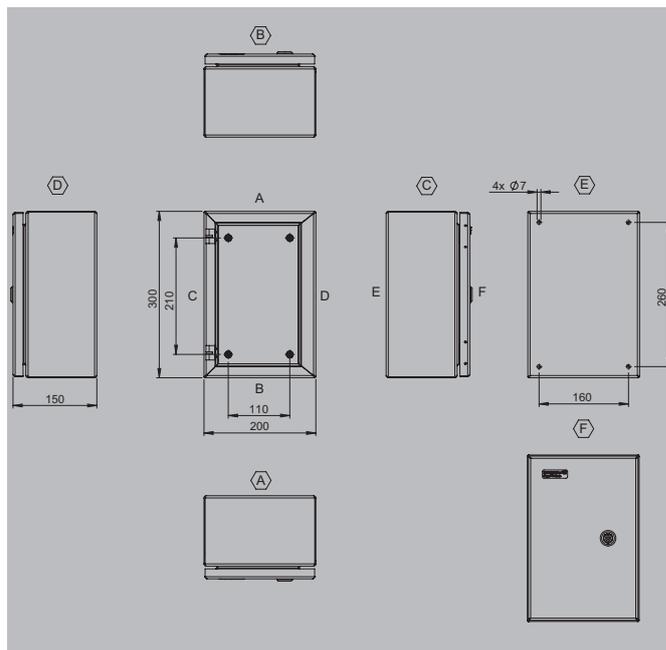
Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC TS 32 Mounting rail with clamping yoke technology SAK TS 15 Mounting rail with clamping yoke technology AKZ Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	18	28
M16	10	15
M20	8	8
M25	3	6
M32	2	6
M40	2	2
M50		
M63		
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 300 / 200 / 150 mm

**Ordering data**

<b>Stainless steel 1.4301 (304), natural</b>	<b>Order No.</b>
0 gland plates	<b>8000133638</b>

**Note**

**Accessories**

<b>Mounting plates</b>	<b>Order No.</b>
With hole pattern, natural stainless steel 1.4301	<b>8000150226</b>
<b>Mounting rails, TS35x7.5</b>	
Horizontally	<b>8000078661</b>
Vertically	<b>8000078662</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x41	3x23
4 mm <sup>2</sup>	3x19, 1x35	3x19
6 mm <sup>2</sup>	1x27	3x14
10 mm <sup>2</sup>	1x21	3x11
16 mm <sup>2</sup>	1x18	3x9
35 mm <sup>2</sup>	1x13	3x7



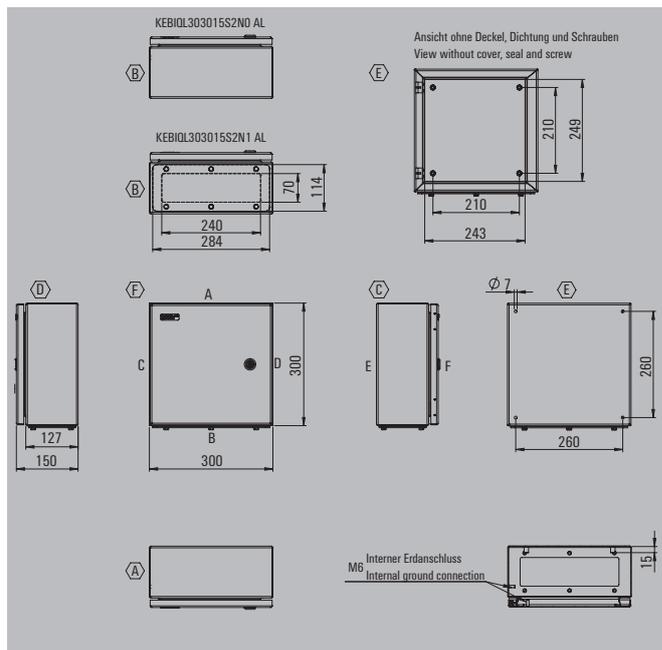
**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	24	44
M16	8	24
M20	8	16
M25	3	12
M32	2	12
M40	2	3
M50	3	6
M63	3	5
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 300 / 300 / 150 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090357
1 gland plate - positioned at the bottom (B)	8000090363

Note

**Accessories**

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074316
Steel sheet, zinc plated (ST/ZN)	8000074171
Mounting rails, TS35x7.5	Vertical 8000078662
Fastening screws	Fastening screws for terminal rails* 1274150000 Fastening screws for mounting plates 2704960000
Stainless steel document holders	For DIN A4 size documents 8000075809 For DIN A5 size documents 8000075808 For DIN A6 size documents 8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	15 mm length 3896100000 20 mm length 3896200000 30 mm length 3896300000
Label holder	100x25 stainless steel 1.4301 8000075818 130x50 stainless steel 1.4301 8000075816
Double-bit key	2473930000

Note \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x40	2x40
4 mm <sup>2</sup>	2x33	2x33
6 mm <sup>2</sup>	2x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x15	1x16
35 mm <sup>2</sup>	1x12	1x12



Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
TS 32 Mounting rail with clamping yoke technology SAK  
TS 15 Mounting rail with clamping yoke technology AKZ  
Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

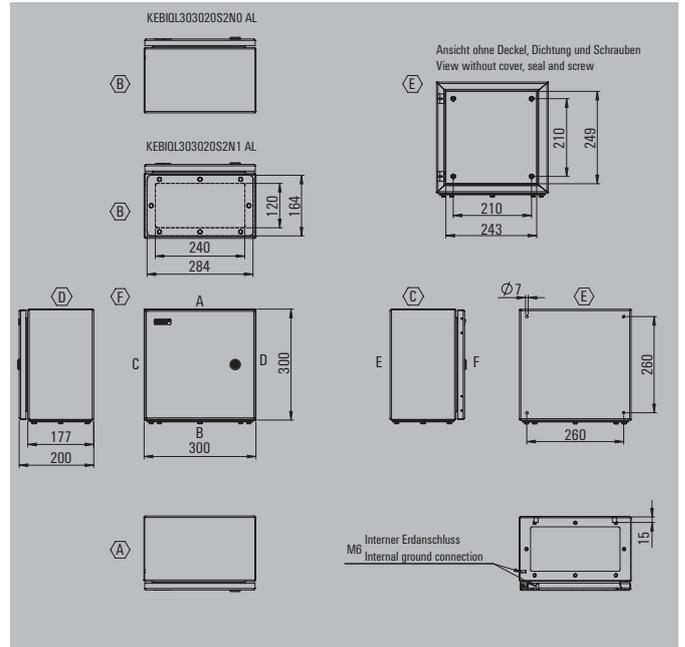
Cable entries	A / B	C / D
M12	33	48
M16	18	27
M20	14	14
M25	6	12
M32	4	10
M40	3	4
M50		
M63		
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi QL 303020

Depth 200 mm



Height / Width / Depth 300 / 300 / 200 mm

Ordering data

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090358
1 gland plate - positioned at the bottom (B)	8000090364

Note

Accessories

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074316
Steel sheet, zinc plated (ST/ZN)	8000074171
Mounting rails, TS35x7.5	Vertical 8000078662
Fastening screws	Fastening screws for terminal rails* 1274150000 Fastening screws for mounting plates 2704960000
Stainless steel document holders	For DIN A4 size documents 8000075809 For DIN A5 size documents 8000075808 For DIN A6 size documents 8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	15 mm length 3896100000 20 mm length 3896200000 30 mm length 3896300000
Label holder	100x25 stainless steel 1.4301 8000075818 130x50 stainless steel 1.4301 8000075816
Double-bit key	2473930000

Note \*Packing unit (PU) = 20 pcs.

Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x40	2x40
4 mm <sup>2</sup>	2x33	2x33
6 mm <sup>2</sup>	2x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x15	1x16
35 mm <sup>2</sup>	1x12	1x12



Note

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
TS 32 Mounting rail with clamping yoke technology SAK  
TS 15 Mounting rail with clamping yoke technology AKZ  
Order information for terminal blocks, please refer to online catalogue

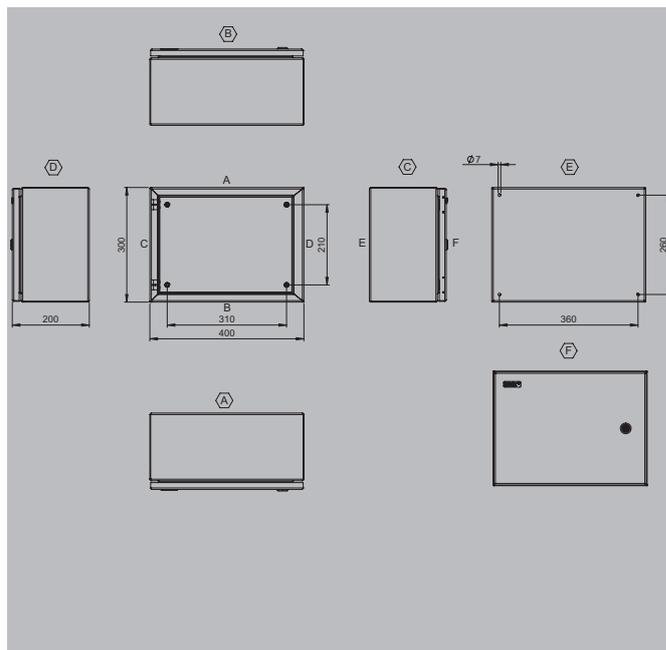
Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	55	72
M16	36	45
M20	21	28
M25	18	18
M32	8	15
M40	6	8
M50		
M63		
M75		



Note

Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 300 / 400 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133639</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
With hole pattern, natural stainless steel 1.4301	<b>8000150230</b>
<b>Mounting rails, TS35x7.5</b>	
Horizontally	<b>8000078664</b>
Vertically	<b>8000078662</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x61	3x42
4 mm <sup>2</sup>	3x51	3x35
6 mm <sup>2</sup>	3x40	3x27
10 mm <sup>2</sup>	3x51	3x21
16 mm <sup>2</sup>	3x40	3x18
35 mm <sup>2</sup>	3x19	3x13



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	85	55
M16	96	32
M20	70	21
M25	40	10
M32	24	8
M40	15	5
M50		
M63		
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi QL 403020

Depth 200 mm



Height / Width / Depth 400 / 300 / 200 mm

Ordering data

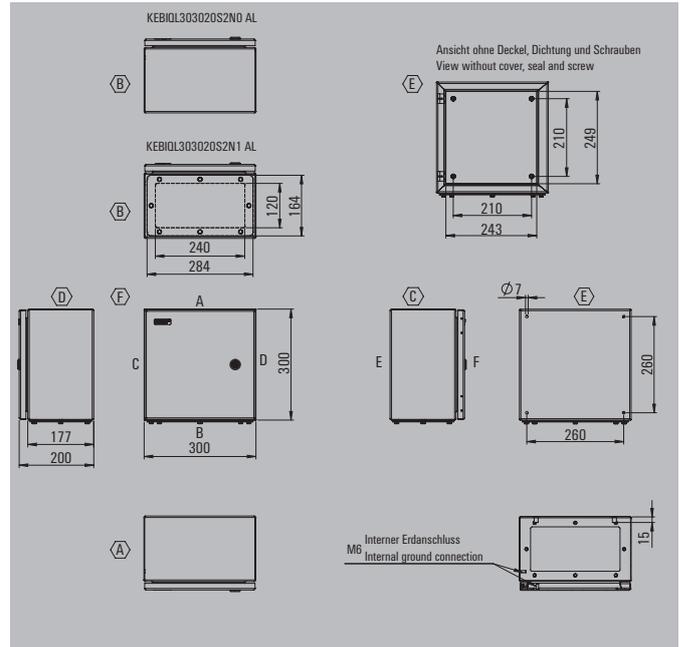
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090359
1 gland plate - positioned at the bottom (B)	8000090365

Note

Accessories

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074172
With hole pattern, natural stainless steel 1.4301	8000074318
Mounting rails, TS35x7.5	
Horizontally	8000078663
Vertically	8000078662
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Double-bit key	
	2473930000

Note \*Packing unit (PU) = 20 pcs.



Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x59	3x40
4 mm <sup>2</sup>	2x49	3x33
6 mm <sup>2</sup>	1x37	2x25
10 mm <sup>2</sup>	1x30	2x20
16 mm <sup>2</sup>	1x24	2x16
35 mm <sup>2</sup>	1x18	1x12

Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	55	96
M16	36	65
M20	21	40
M25	18	24
M32	8	21
M40	6	10
M50		
M63		
M75		

Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 400 / 400 / 200 mm

**Ordering data**

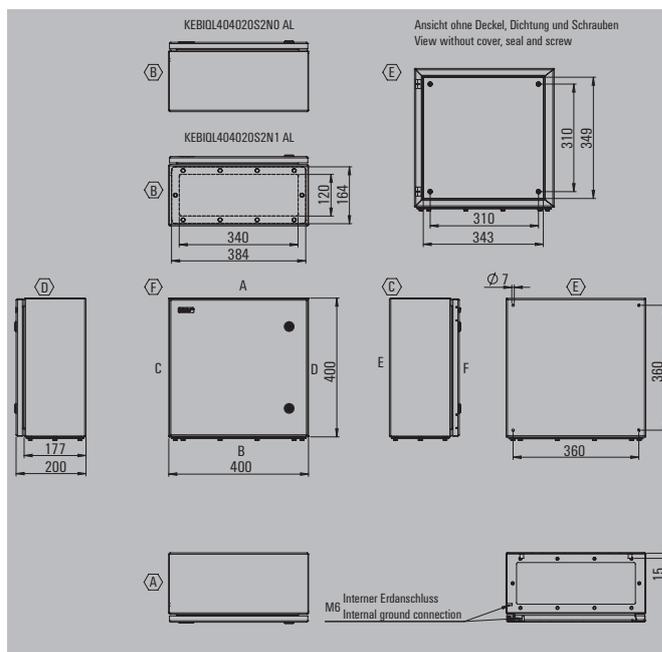
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090360
1 gland plate - positioned at the bottom (B)	8000090366

**Note**

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074173
With hole pattern, natural stainless steel 1.4301	8000074319
Mounting rails, TS35x7.5	
Horizontally	8000078663
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Double-bit key	2473930000

**Note** \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x59	3x59
4 mm <sup>2</sup>	3x49	3x49
6 mm <sup>2</sup>	2x37	2x37
10 mm <sup>2</sup>	2x30	2x30
16 mm <sup>2</sup>	2x24	2x24
35 mm <sup>2</sup>	1x18	1x18



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	80	96
M16	48	65
M20	30	40
M25	24	24
M32	12	21
M40	10	10
M50	4	4
M63	3	3
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi QL 504020

Depth 200 mm



Height / Width / Depth 500 / 400 / 200 mm

Ordering data

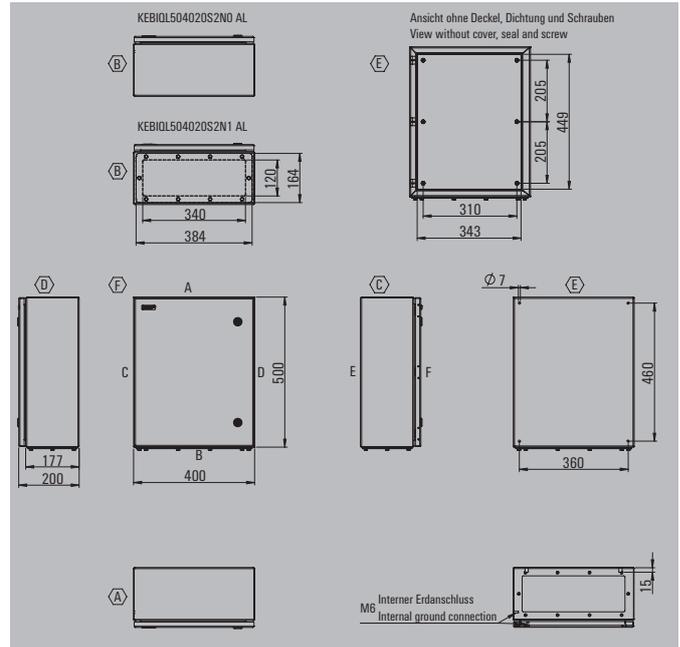
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090361
1 gland plate - positioned at the bottom (B)	8000090367

Note

Accessories

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074321
Steel sheet, zinc plated (ST/ZN)	8000074175
Mounting rails, TS35x7.5	
Horizontally	8000078663
Vertically	8000078666
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Double-bit key	
	2473930000

Note \*Packing unit (PU) = 20 pcs.



Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x80	4x59
4 mm <sup>2</sup>	3x66	4x49
6 mm <sup>2</sup>	2x51	3x37
10 mm <sup>2</sup>	2x40	3x30
16 mm <sup>2</sup>	2x33	3x24
35 mm <sup>2</sup>	1x24	2x18



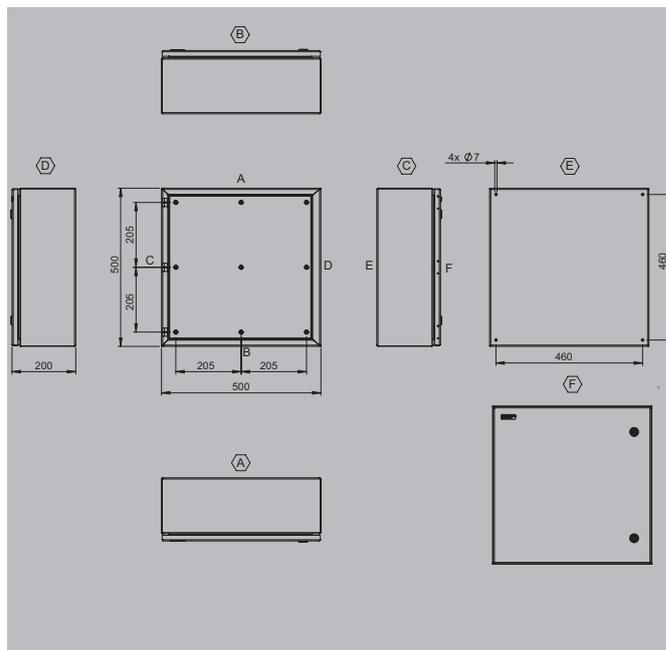
Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	80	126
M16	48	80
M20	30	52
M25	24	33
M32	12	27
M40	10	14
M50	4	5
M63	3	4
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 5000 / 500 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133640</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
Steel sheet, zinc plated (ST/ZN)	<b>8000074176</b>
With hole pattern, natural stainless steel 1.4301	<b>8000074322</b>
<b>Mounting rails, TS35x7.5</b>	
Vertical	<b>8000078666</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x80	4x80
4 mm <sup>2</sup>	4x67	4x67
6 mm <sup>2</sup>	4x52	4x52
10 mm <sup>2</sup>	4x41	4x41
16 mm <sup>2</sup>	4x35	4x35
35 mm <sup>2</sup>	4x25	4x25



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	95	114
M16	39	52
M20	36	48
M25	30	30
M32	16	14
M40	12	12
M50	10	10
M63	5	5
M75	3	3



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi QL 604020

Depth 200 mm



Height / Width / Depth 600 / 400 / 200 mm

**Ordering data**

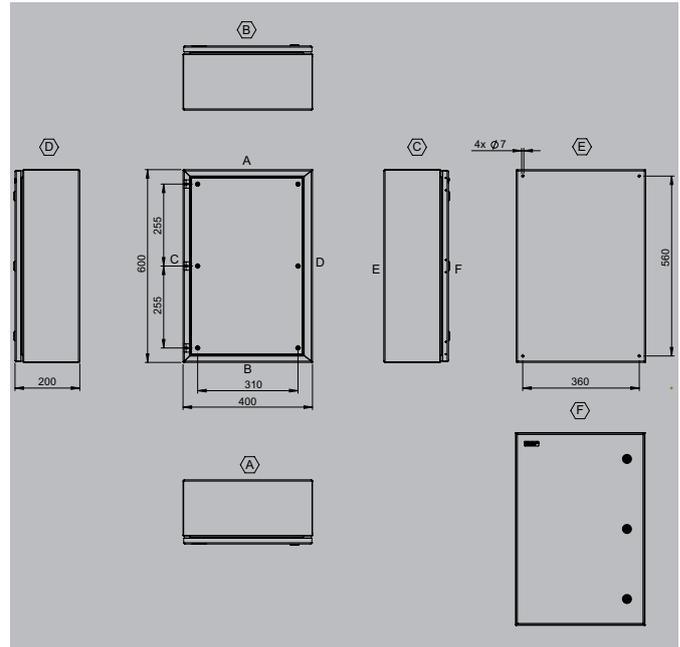
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133641</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
Steel sheet, zinc plated (ST/ZN)	<b>8000074178</b>
With hole pattern, natural stainless steel 1.4301	<b>8000074324</b>
<b>Mounting rails, TS35x7.5</b>	
Vertical	<b>8000078669</b>
Horizontally	<b>8000078664</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x91	4x60
4 mm <sup>2</sup>	3x83	4x50
6 mm <sup>2</sup>	3x64	4x38
10 mm <sup>2</sup>	11x48	4x38
16 mm <sup>2</sup>	3x42	4x25
35 mm <sup>2</sup>	3x31	4x18



**Note**

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

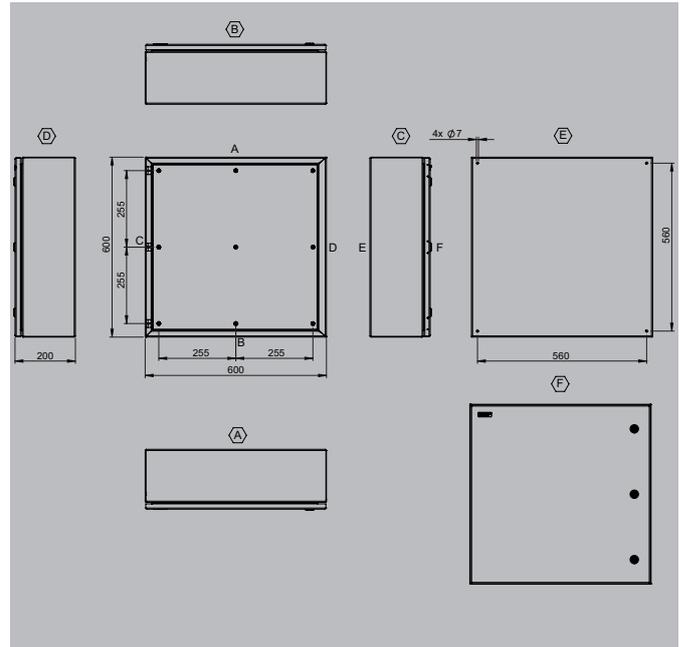
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	70	138
M16	30	64
M20	27	60
M25	21	36
M32	12	20
M40	10	14
M50	3	6
M63	3	5
M75		



**Note**

Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 600 / 600 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133642</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
With hole pattern, natural stainless steel 1.4301	<b>8000150227</b>
<b>Mounting rails, TS35x7.5</b>	Vertical
	<b>8000078669</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	Standard
	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x98	4x98
4 mm <sup>2</sup>	4x83	4x83
6 mm <sup>2</sup>	4x64	4x64
10 mm <sup>2</sup>	4x51	4x51
16 mm <sup>2</sup>	3x44	3x44
35 mm <sup>2</sup>	2x31	2x31



**Note**

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAJ  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	115	135
M16	45	60
M20	42	60
M25	24	36
M32	20	20
M40	14	16
M50	6	6
M63	5	5
M75	1	1



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi QL 806020

Depth 200 mm



Height / Width / Depth 800 / 600 / 200 mm

**Ordering data**

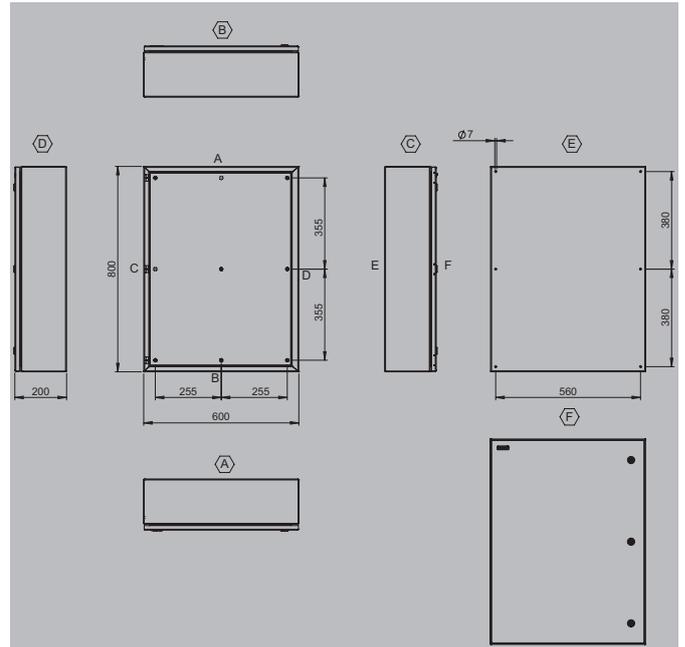
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133643</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
With hole pattern, natural stainless steel 1.4301	<b>8000074325</b>
Steel sheet, zinc plated (ST/ZN)	<b>8000074179</b>
<b>Mounting rails, TS35x7.5</b>	
Horizontally	<b>8000078671</b>
Vertically	<b>8000078669</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	5x132	4x98
4 mm <sup>2</sup>	4x111	4x83
6 mm <sup>2</sup>	4x94	4x64
10 mm <sup>2</sup>	4x70	4x51
16 mm <sup>2</sup>	3x61	3x44
35 mm <sup>2</sup>	2x44	2x31



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	138	192
M16	45	84
M20	42	80
M25	24	51
M32	20	28
M40	16	22
M50	6	8
M63	5	7
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

# Klippon® EBi HS – Hinged Screw

## Stainless steel enclosures for use within harsh industrial environments

Even under moderate environmental conditions, there is an increasing need for complex, individual automated solutions. A harsh industrial environment places additional, heavy demands on applications and determines the design of the industrial enclosures to meet these demands. With complete protection and excellent durability, our Klippon® EBi stainless steel enclosures offer the best protection for the components inside them.

- Available in 11 sizes and 2 depths
- Impact resistance IK09 (10J) in accordance with DIN EN 50102 for industrial applications
- Dedicated internal mounting support bracket for fixing terminal rail or mounting plates with self forming screws
- Concealed hinges
- Supplied in 0 or 1 gland plate version
- Direct enclosure mounting is provided via the fixing positions placed into the rear of the enclosure
- Mounting feet in stainless steel are optionally available and can be rotated 90°
- Dust and moisture channel

Our assembly service can supply these enclosure preassembled with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories: [www.weidmueller.com/klipponebi](http://www.weidmueller.com/klipponebi)



You can find this product family in our Weidmüller Configurator: [www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

### Overview of enclosures

#### Ordering data

Description	Height x width x depth in mm	0 Gland Plate	1 Gland Plate (below)
KEBi HS 202015 S2N_*	200 x 200 x 150	8000090342	8000090348
KEBi HS 302015 S2N_*	300 x 200 x 150	8000133626	
KEBi HS 303015 S2N_*	300 x 300 x 150	8000090343	8000090349
KEBi HS 303020 S2N_*	300 x 300 x 200	8000090344	8000090351
KEBi HS 403020 S2N_*	400 x 300 x 200	8000090345	8000090352
KEBi HS 404020 S2N_*	400 x 400 x 200	8000090346	8000090354
KEBi HS 504020 S2N_*	500 x 400 x 200	8000090347	8000090355
KEBi HS 505020 S2N_*	500 x 500 x 200	8000133627	
KEBi HS 604020 S2N_*	600 x 400 x 200	8000133628	
KEBi HS 606020 S2N_*	600 x 600 x 200	8000133629	
KEBi HS 806020 S2N_*	800 x 600 x 200	8000133630	
<b>Note</b>	Note *Placeholder for the number of gland plates (0 or 1)		

## Technical Overview

### Features

- Available in 11 sizes and 2 standard depths
- Welded mounting bracket for securing the mounting plate or mounting rail by means of self-tapping screws
- External earth - M6 earth rivet
- Concealed hinges
- M6 earthing bolt welded in the cover and base of the enclosure
- Available with 0 or 1 gland plates
- Optimised laser welding, high quality standard
- Direct mounting of the enclosure with rear mounting holes
- Mounting feet in stainless steel are optionally available, and can be rotated by 90°
- Moisture and dust channel
- Hinged Screw locking system
- Permanent labelling of items
- Key included for sash lock
- Packaging optimally designed for enclosure

### Note

### Technical data

Material	Stainless steel 1.4301 (304) 1.5 mm
Surface	untreated
IP protection class	IP 66 to DIN EN 60529
Gland plates	Stainless steel 1.4301 (304) 3 mm, fitted with M5 TRX T20 screws
Earthing inside	Welded-on M6 stainless-steel earth stud in enclosure lid and base
Earthing outside	External earth position – suitable for M6 threaded screw
Installation mounting	Welded mounting bracket for flexible mounting of the mounting plate, rails or TAS 20 rails. They contain 4.51 mm drill holes for accommodating the mounting plate or TS/TAS by means of self-tapping screws (1274150000)
Enclosure attachment	Direct mounting (9 mm mounting holes on rear wall) or via mounting feet (optionally available), adjustable by 90°
Lid opening	125°
Lid fixing	M5 hexagonal screw with slot and 10mm distance across flats + hinge
Impact resistance	IK09 (10J) to DIN EN 50102
Gasket material	Chloroprene
Operating temperature range	-40 °C ... +85 °C
Tightening torque of gland plates screws*	2.5 Nm
<b>Note</b>	*SD T20 Screwdriver (2749520000) optionally available

### Approvals for empty enclosures

Empty enclosure standard	DIN EN 62208
<b>Note</b>	For details of power dissipation, please contact your Weidmüller representative.



Height / Width / Depth 200 / 200 / 150 mm

**Ordering data**

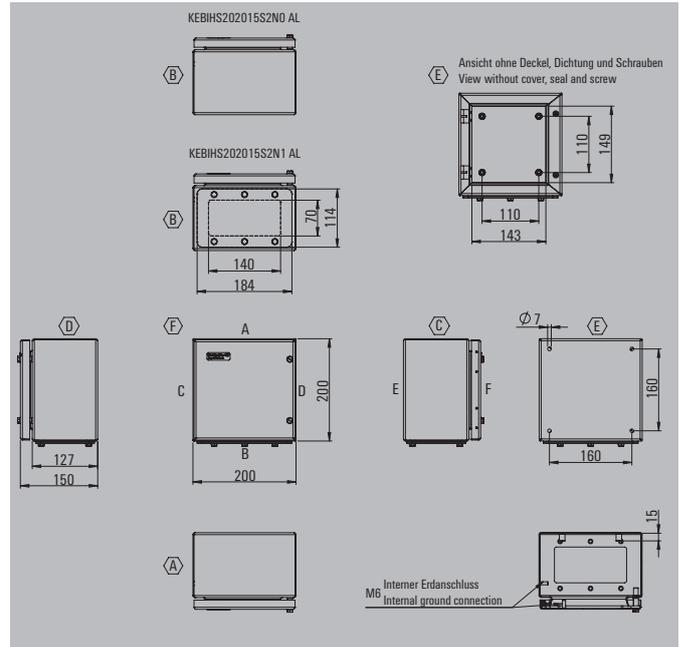
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090342
1 gland plate - positioned at the bottom (B)	8000090348

Note

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074117
With hole pattern, natural stainless steel 1.4301	8000074314
Mounting rails, TS35x7.5	
Horizontally	8000078661
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mounting foot	
	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Screwdriver	
Standard	2749640000

Note \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x26	1x10
4 mm <sup>2</sup>	1x21	1x8
6 mm <sup>2</sup>	1x16	1x6
10 mm <sup>2</sup>	1x13	1x4
16 mm <sup>2</sup>	1x10	1x3
35 mm <sup>2</sup>	1x7	1x2



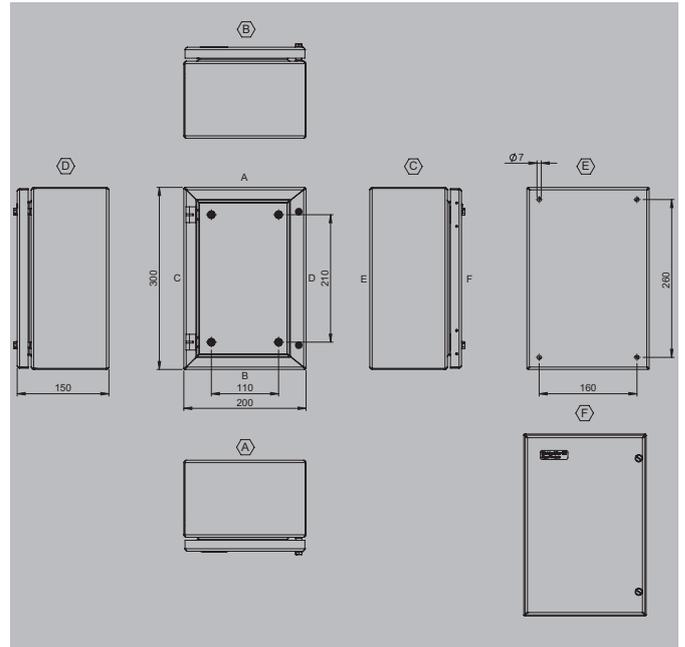
Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	18	28
M16	10	15
M20	8	8
M25	3	6
M32	2	6
M40	2	2
M50		
M63		
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 300 / 200 / 150 mm

**Ordering data**

<b>Stainless steel 1.4301 (304), natural</b>	<b>Order No.</b>
0 gland plates	<b>8000133626</b>

**Note**

**Accessories**

<b>Mounting plates</b>	<b>Order No.</b>
With hole pattern, natural stainless steel 1.4301	<b>8000150226</b>
<b>Mounting rails, TS35x7.5</b>	
Horizontally	<b>8000078661</b>
Vertically	<b>8000078662</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mounting foot</b>	<b>2660200318</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x41	3x23
4 mm <sup>2</sup>	3x19, 1x35	3x19
6 mm <sup>2</sup>	1x27	3x14
10 mm <sup>2</sup>	1x21	3x11
16 mm <sup>2</sup>	1x18	3x9
35 mm <sup>2</sup>	1x13	3x7



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	24	44
M16	8	24
M20	8	16
M25	3	12
M32	2	12
M40	2	3
M50	3	6
M63	3	5
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 300 / 300 / 150 mm

**Ordering data**

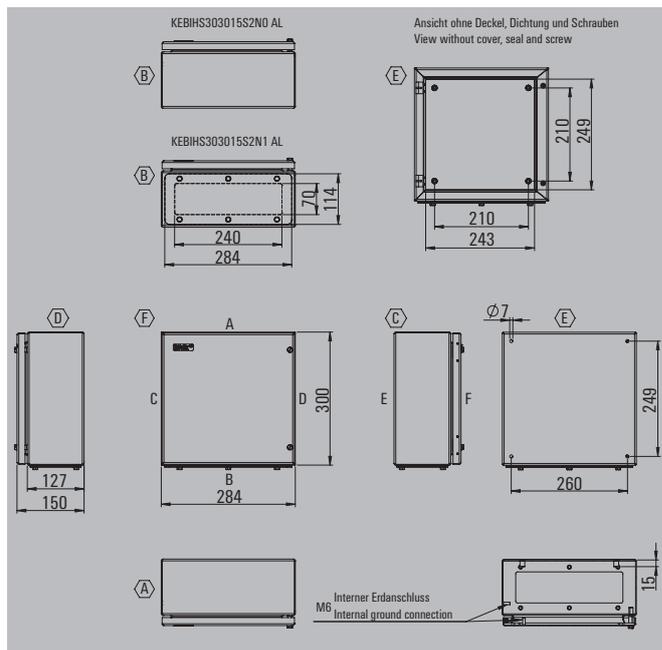
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090343
1 gland plate - positioned at the bottom (B)	8000090349

Note

**Accessories**

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074316
Steel sheet, zinc plated (ST/ZN)	8000074171
Mounting rails, TS35x7.5	Vertical 8000078662
Fastening screws	Fastening screws for terminal rails* 1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	For DIN A4 size documents 8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mounting foot	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	15 mm length 3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	100x25 stainless steel 1.4301 8000075818
130x50 stainless steel 1.4301	8000075816
Screwdriver	Standard 2749640000

Note \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x41	2x40
4 mm <sup>2</sup>	1x34	2x33
6 mm <sup>2</sup>	1x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x17	1x16
35 mm <sup>2</sup>	1x12	1x12



Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC TS 32 Mounting rail with clamping yoke technology SAK TS 15 Mounting rail with clamping yoke technology AKZ Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	33	48
M16	18	27
M20	14	14
M25	6	12
M32	4	10
M40	3	4
M50		
M63		
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi HS 303020

Depth 200 mm



Height / Width / Depth 300 / 300 / 200 mm

Ordering data

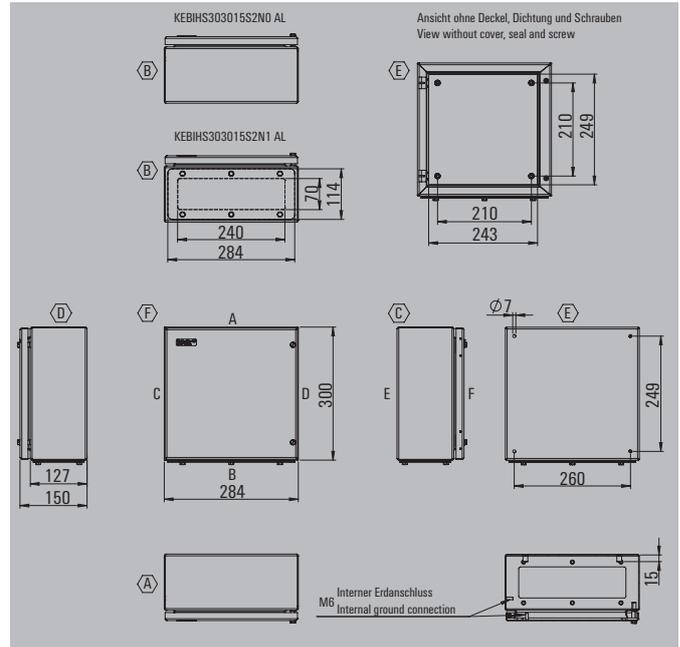
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090344
1 gland plate - positioned at the bottom (B)	8000090351

Note

Accessories

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074316
Steel sheet, zinc plated (ST/ZN)	8000074171
Mounting rails, TS35x7.5	Vertical 8000078662
Fastening screws	Fastening screws for terminal rails* 1274150000
	Fastening screws for mounting plates 2704960000
Stainless steel document holders	For DIN A4 size documents 8000075809
	For DIN A5 size documents 8000075808
	For DIN A6 size documents 8000075807
Mounting foot	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Label holder	100x25 stainless steel 1.4301 8000075818
	130x50 stainless steel 1.4301 8000075816
Screwdriver	Standard 2749640000

Note \*Packing unit (PU) = 20 pcs.



Guide value for max. number of terminals (industry)

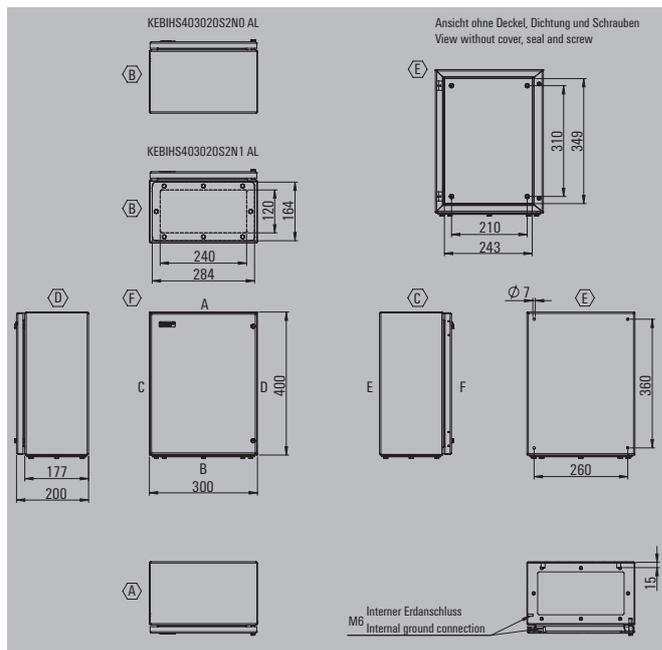
Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x41	2x40
4 mm <sup>2</sup>	1x34	2x33
6 mm <sup>2</sup>	1x25	2x25
10 mm <sup>2</sup>	1x20	1x20
16 mm <sup>2</sup>	1x17	1x16
35 mm <sup>2</sup>	1x12	1x12

Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC TS 32 Mounting rail with clamping yoke technology SAK TS 15 Mounting rail with clamping yoke technology AKZ Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	55	72
M16	36	45
M20	21	28
M25	18	18
M32	8	15
M40	6	8
M50		
M63		
M75		

Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 400 / 300 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090345
1 gland plate - positioned at the bottom (B)	8000090352

Note

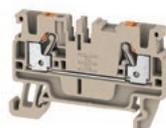
**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074172
With hole pattern, natural stainless steel 1.4301	8000074318
Mounting rails, TS35x7.5	
Vertical	8000078662
Horizontally	8000078663
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mounting foot	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Screwdriver	
Standard	2749640000

Note \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x59	3x39
4 mm <sup>2</sup>	2x49	3x32
6 mm <sup>2</sup>	1x37	2x24
10 mm <sup>2</sup>	1x30	2x19
16 mm <sup>2</sup>	1x24	2x16
35 mm <sup>2</sup>	1x18	1x11



Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	55	96
M16	36	65
M20	21	40
M25	18	24
M32	8	21
M40	6	10
M50		
M63		
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 400 / 400 / 200 mm

**Ordering data**

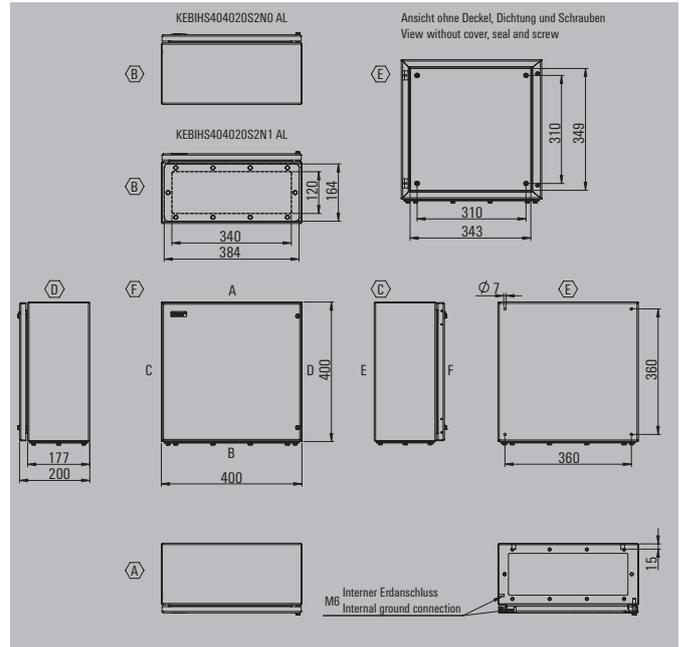
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090346
1 gland plate - positioned at the bottom (B)	8000090354

**Note**

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated (ST/ZN)	8000074173
With hole pattern, natural stainless steel 1.4301	8000074319
Mounting rails, TS35x7.5	
Horizontally	8000078663
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mounting foot	
	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Screwdriver	
Standard	2749640000

**Note** \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x59	3x59
4 mm <sup>2</sup>	3x49	3x49
6 mm <sup>2</sup>	2x37	2x37
10 mm <sup>2</sup>	2x30	2x30
16 mm <sup>2</sup>	2x24	2x24
35 mm <sup>2</sup>	1x18	1x11



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	80	96
M16	48	65
M20	30	40
M25	24	24
M32	12	21
M40	10	10
M50	4	4
M63	3	3
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 500 / 400 / 200 mm

**Ordering data**

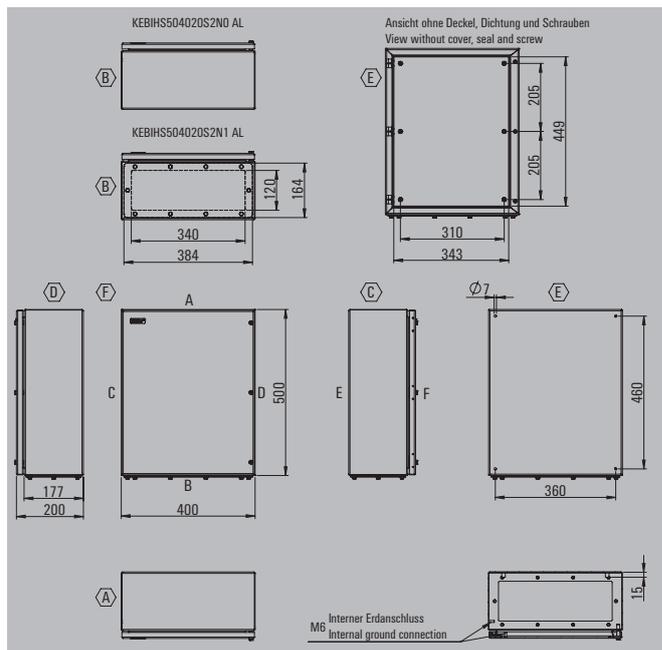
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000090347
1 gland plate - positioned at the bottom (B)	8000090355

Note

**Accessories**

Mounting plates	Order No.
With hole pattern, natural stainless steel 1.4301	8000074321
Steel sheet, zinc plated (ST/ZN)	8000074175
Mounting rails, TS35x7.5	
Horizontally	8000078663
Vertically	8000078666
Fastening screws	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
Stainless steel document holders	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
Mounting foot	2660200318
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Label holder	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
Screwdriver	2749640000
Standard	

Note \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x80	4x59
4 mm <sup>2</sup>	3x66	4x49
6 mm <sup>2</sup>	2x51	3x37
10 mm <sup>2</sup>	2x40	3x30
16 mm <sup>2</sup>	2x33	3x24
35 mm <sup>2</sup>	2x24	2x18



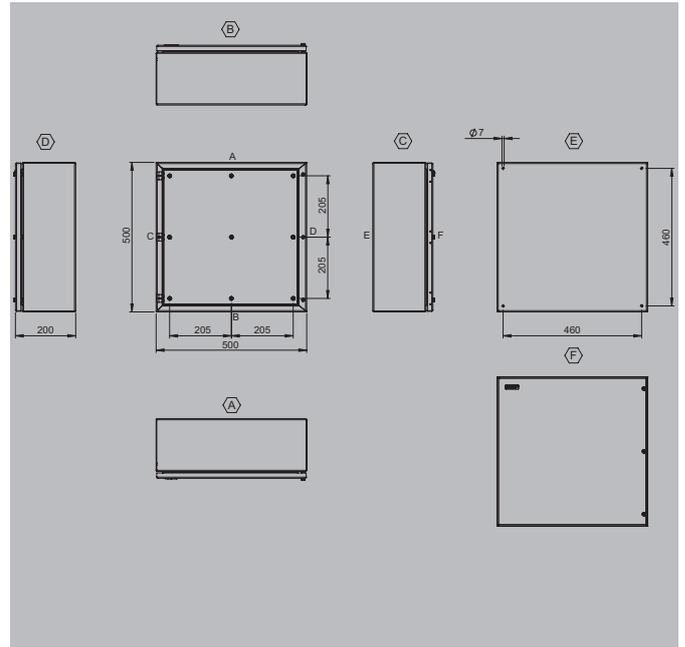
Note The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC TS 32 Mounting rail with clamping yoke technology SAK TS 15 Mounting rail with clamping yoke technology AKZ Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	80	126
M16	48	80
M20	30	52
M25	24	33
M32	12	27
M40	10	14
M50	4	5
M63	3	4
M75		



Note Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 500 / 500 / 200 mm

**Ordering data**

<b>Stainless steel 1.4301 (304), natural</b>	<b>Order No.</b>
0 gland plates	<b>8000133627</b>

**Note**

**Accessories**

<b>Mounting plates</b>	<b>Order No.</b>
Steel sheet, zinc plated (ST/ZN)	<b>8000074176</b>
With hole pattern, natural stainless steel 1.4301	<b>8000074322</b>
<b>Mounting rails, TS35x7.5</b>	
Vertical	<b>8000078666</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mounting foot</b>	<b>2660200318</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x80	4x80
4 mm <sup>2</sup>	4x67	4x67
6 mm <sup>2</sup>	4x52	4x52
10 mm <sup>2</sup>	4x41	4x41
16 mm <sup>2</sup>	4x35	4x35
35 mm <sup>2</sup>	4x25	4x25



**Note**

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

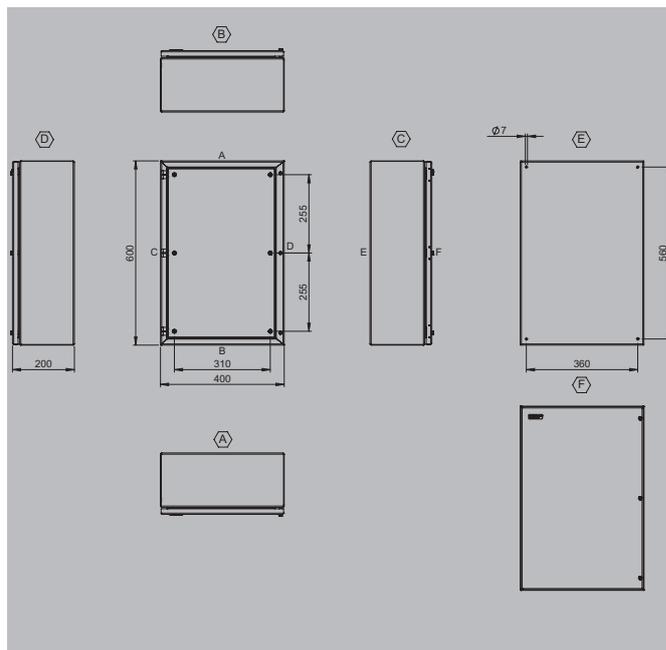
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	95	114
M16	39	52
M20	36	48
M25	30	30
M32	16	14
M40	12	12
M50	10	10
M63	5	5
M75	3	3



**Note**

Our IP 68 brass cable glands are used as the reference for these guideline values.



Height / Width / Depth 600 / 400 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133628</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
Steel sheet, zinc plated (ST/ZN)	<b>8000074178</b>
With hole pattern, natural stainless steel 1.4301	<b>8000074324</b>
<b>Mounting rails, TS35x7.5</b>	
Horizontally	<b>8000078664</b>
Vertically	<b>8000078669</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mounting foot</b>	<b>2660200318</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x91	4x60
4 mm <sup>2</sup>	3x83	4x50
6 mm <sup>2</sup>	3x64	4x38
10 mm <sup>2</sup>	11x48	4x38
16 mm <sup>2</sup>	3x42	4x25
35 mm <sup>2</sup>	3x31	4x18



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

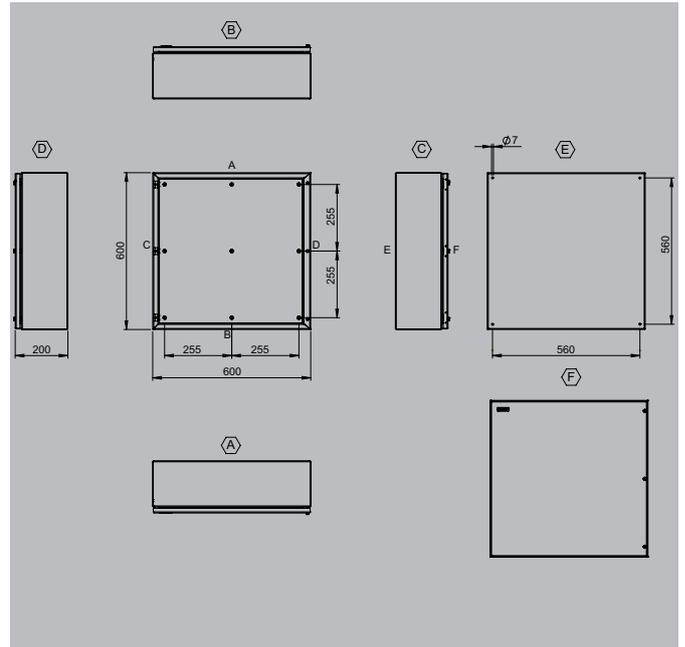
Cable entries	A / B	C / D
M12	70	138
M16	30	64
M20	27	60
M25	21	36
M32	12	20
M40	10	14
M50	3	6
M63	3	5
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.

Klippon® EBi HS 606020

Depth 200 mm



Height / Width / Depth 600 / 600 / 200 mm

**Ordering data**

Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	8000133629

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
Steel sheet, zinc plated (ST/ZN)	8000150223
With hole pattern, natural stainless steel 1.4301	8000150227
<b>Mounting rails, TS35x7.5</b>	
Vertical	8000078669
<b>Fastening screws</b>	
Fastening screws for terminal rails*	1274150000
Fastening screws for mounting plates	2704960000
<b>Stainless steel document holders</b>	
For DIN A4 size documents	8000075809
For DIN A5 size documents	8000075808
For DIN A6 size documents	8000075807
<b>Mounting foot</b>	2660200318
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Label holder</b>	
100x25 stainless steel 1.4301	8000075818
130x50 stainless steel 1.4301	8000075816
<b>Screwdriver</b>	
Standard	2749640000

**Note** \*Packing unit (PU) = 20 pcs.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	4x98	4x98
4 mm <sup>2</sup>	4x83	4x83
6 mm <sup>2</sup>	4x64	4x64
10 mm <sup>2</sup>	4x51	4x51
16 mm <sup>2</sup>	3x44	3x44
35 mm <sup>2</sup>	2x31	2x31



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	115	135
M16	45	60
M20	42	60
M25	24	36
M32	20	20
M40	14	16
M50	6	6
M63	5	5
M75	1	1



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.



800 / 600 / 200 mm

**Ordering data**

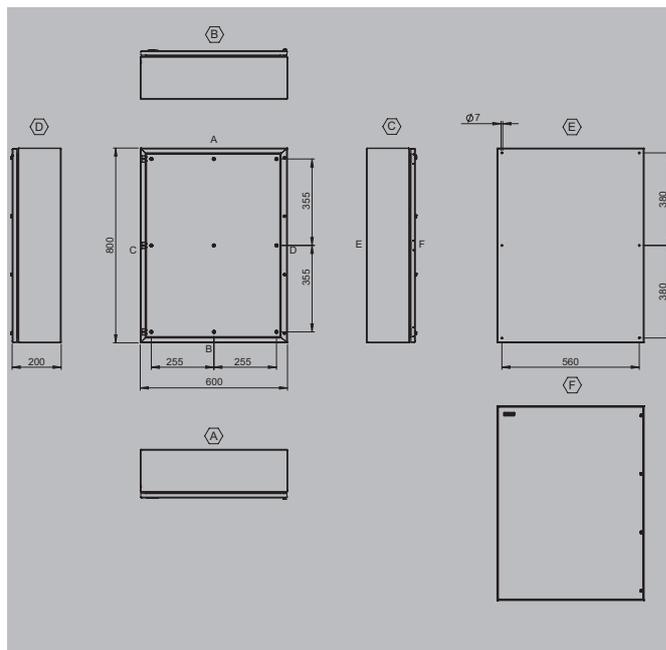
Stainless steel 1.4301 (304), natural	Order No.
0 gland plates	<b>8000133630</b>

**Note**

**Accessories**

<b>Mounting plates</b>	Order No.
With hole pattern, natural stainless steel 1.4301	<b>8000074325</b>
Steel sheet, zinc plated (ST/ZN)	<b>8000074179</b>
<b>Mounting rails, TS35x7.5</b>	
Vertical	<b>8000078669</b>
Horizontally	<b>8000078671</b>
<b>Fastening screws</b>	
Fastening screws for terminal rails*	<b>1274150000</b>
Fastening screws for mounting plates	<b>2704960000</b>
<b>Stainless steel document holders</b>	
For DIN A4 size documents	<b>8000075809</b>
For DIN A5 size documents	<b>8000075808</b>
For DIN A6 size documents	<b>8000075807</b>
<b>Mounting foot</b>	<b>2660200318</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	<b>3896100000</b>
20 mm length	<b>3896200000</b>
30 mm length	<b>3896300000</b>
<b>Label holder</b>	
100x25 stainless steel 1.4301	<b>8000075818</b>
130x50 stainless steel 1.4301	<b>8000075816</b>
<b>Screwdriver</b>	
Standard	<b>2749640000</b>

**Note** \*Packing unit (PU) = 20 pcs.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	5x132	4x98
4 mm <sup>2</sup>	4x111	4x83
6 mm <sup>2</sup>	4x94	4x64
10 mm <sup>2</sup>	4x70	4x51
16 mm <sup>2</sup>	3x61	3x44
35 mm <sup>2</sup>	2x44	2x31



**Note** The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 TS 32 Mounting rail with clamping yoke technology SAK  
 TS 15 Mounting rail with clamping yoke technology AKZ  
 Order information for terminal blocks, please refer to online catalogue

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	138	192
M16	45	84
M20	42	80
M25	24	51
M32	20	28
M40	16	22
M50	6	8
M63	5	7
M75		



**Note** Our IP 68 brass cable glands are used as the reference for these guideline values.



# Klippon® STB stainless and sheet steel enclosures

## Protection for industrial standard applications and potentially explosive atmospheres

**The Klippon® STB range manufactured from either sheet or stainless steel is the perfectly designed Small Terminal Box. It provides the ideal connection point for either industrial or harsh environment applications.**

The name Klippon® has long been synonymous for competence and quality in the supply of enclosures and customer solutions. This philosophy continues with our Klippon® STB range of enclosures.

### Flexible, internal mounting options

Terminal rails can be installed on the industry standard mounting rails using the provided fixing set with welded C-profile (TAS 20). A maximum possible internal working area is provided while ensuring a stable and flexible area for the rail assembly.



### Internal / external earthing screw

The enclosures are supplied with a pre-welded internal and external M6 stainless steel earth stud.



**Approvals**

Klippon® STB enclosures have the latest international approvals.



**Enhanced sealing performance**

The new silicon seal has impressive thermal properties and can withstand temperatures from -60 °C to +100 °C (+120 °C). Compression protection ensures the complete functionality of the seal.



**Mounting lugs**

Mounting lugs are pre-fitted as standard. They are vibration and shock resistant and designed to be secure in operation.



**Industries**

Klippon® STB enclosures can be used in a variety of applications. For example, they are ideal for use in standard applications such as machine construction or transportation. They can also be used in explosive risk zones in the process and petrochemical industry.



**Customised solutions**

Weidmüller delivers enclosures in the Klippon® STB series connection ready. With our Klippon® Assembly Service, Weidmüller offers extensive consultation, engineering and installation services for modified enclosures. Depending on the customer- and industry-specific application, the enclosures can be modified and, subject to international specifications and regulations, sent worldwide together with a wide range of accessories.



# Klippon® STB – Small Terminal Box

## Steel enclosures

Ideally suited for the energy and process industry and transportation, the Klippon® STB range is the perfect complement to our existing Klippon® enclosure product line. Enclosures of this range comply with international standards.

Some of the many advantages of these cases are:

- Available in stainless steel or in steel sheet
- Higher temperature resistant seals than the standard
- Flexible options when mounting the internal rail
- The gasket is protected against compression; this ensures that a permanent and secure seal is maintained.
- Earth studs in the lid and in the enclosure base
- Lasered welding seams offer improved quality
- Delivered with welded mounting feet to ensure an sturdy enclosure installation

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponstb](http://www.weidmueller.com/klipponstb)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

## Overview of enclosures

### Ordering data

Description	Height x width x depth in mm	Mirror-polish	Electropolished	Powder-coated (RAL7032)
Klippon® STB 1	120 x 120 x 80	1002690000	1058810000	1024970000
Klippon® STB 1.1	150 x 120 x 80	1002750000	1058820000	1024980000
Klippon® STB 2	150 x 150 x 90	1002740000	1058830000	1024990000
Klippon® STB 2.1	190 x 150 x 90	1002730000	1058840000	1025010000
Klippon® STB 3	190 x 190 x 100	1002720000	1058850000	1025020000
Klippon® STB 4	250 x 250 x 120	1002710000	1058860000	1025030000
Klippon® STB 5	160 x 380 x 120	1002700000	1058880000	1025040000
Klippon® STB 6	250 x 400 x 130	1002760000	1058870000	1025050000

Note

## Technical Overview

### Features

- Mirror-polished or electropolished stainless steel 1.4404 (316L) or powder coated steel sheet 1.0330
- Fitted with a welded, internal C-profile rail (TAS 20) and mounting feet
- Laser cut weld seams
- Approved according to the latest international standards

**Note** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

### Technical data

	Stainless steel	Sheet steel
Enclosure material	Stainless steel 1.4404 (316L) in 1.50 mm	Steel sheet 1.0330 in 1.50 mm
Surface finish	Mirror-polished, electropolished	Powder-coated RAL 7032
IP protection class	IP 66	IP 66
NEMA Rating	4, 4x	
Earthing	Enclosure base part: internal / external M6 stainless steel Lid: M6 x 10 stainless steel	Enclosure base part: internal / external M6 stainless steel Lid: M6 x 10 stainless steel
Installation mounting	Welded C-profile rail	Welded C-profile rail
Enclosure attachment	2 external mounting feet with 8 mm holes	2 external mounting feet with 8 mm holes
Lid opening	Completely removable lid with 4 x M5 screws	Completely removable lid with 4 x M5 screws
Impact resistance	7J in accordance with IEC 60079-0	10J industrial version in accordance with DIN EN 50102
Gasket material	Silicone -60 °C...+100 °C *	Silicone -60 °C...+120 °C
Lid screws, torque	2.5 Nm	2.5 Nm
<b>Note</b>	* +120 °C only for industrial applications	

### Approvals for empty enclosures

	Stainless steel	Sheet steel
ATEX certificate	IBExU07ATEX1147 U	
ATEX marking	⊕ II 2G Ex eb IIC Gb , ⊕ II 1G Ex ia IIC Ga, ⊕ II 2D Ex tb IIIC Db	
IECEX certificate	IECEX IBE 09.0018U	
IECEX marking	Ex eb IIC Gb, Ex ia IIC Ga, Ex tb IIIC Db	
AEx	E223792	
cULus	E197061 and E256877	
Lloyds Register	08/20032	08/20032
INMETRO	In preparation	
<b>Note</b>	This enclosure range is component certified. If other electrical components are inserted into the case, additional certification is required.	

### Approvals for control and distribution box

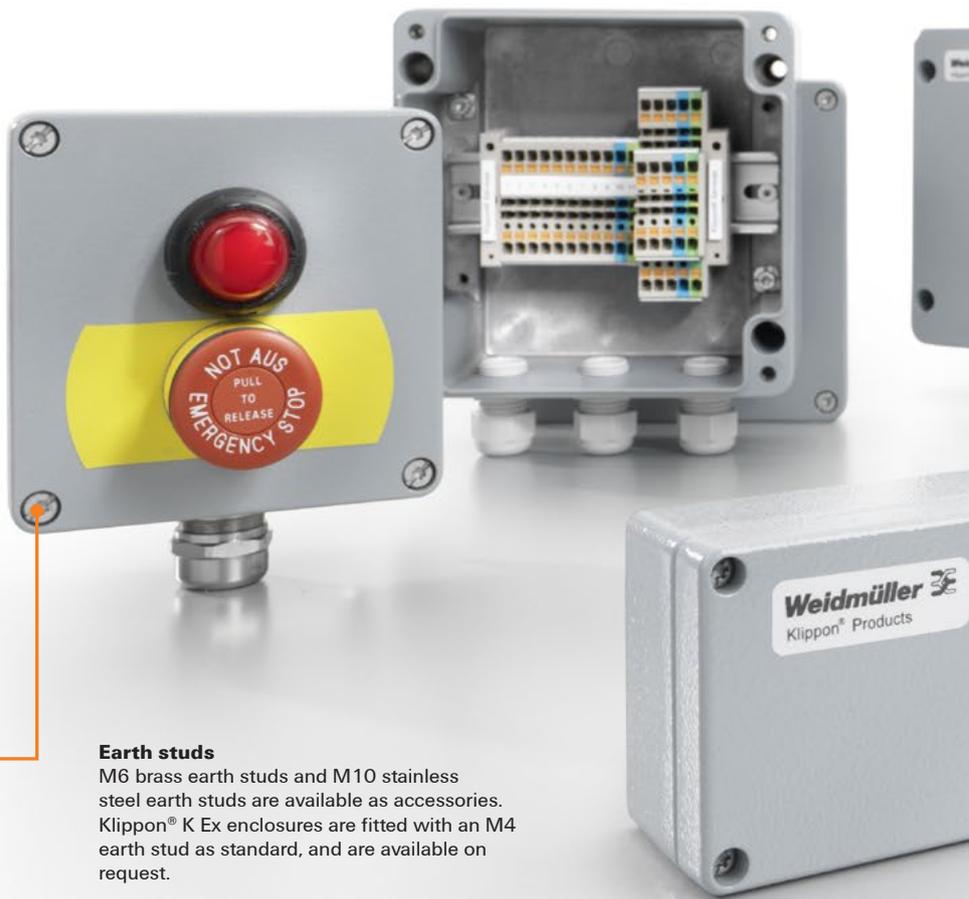
	Stainless steel		
ATEX certificate	IBExU07ATEX1148	INMETRO certificate	LMP 21.0018
ATEX marking	⊕ II 2G Ex eb IIC T6/T5/T4 Gb ⊕ II 2(1)G Ex eb ia [Ga] IIC T6/T5/T4 Gb ⊕ II 1G Ex ia IIC T6/T5/T4 Ga ⊕ II 2D Ex tb IIIC T80°C/T95°C/T100°C Db -60°C ≤ Ta ≤ +40/+55/+60 °C	INMETRO marking	Ex eb IIC T6/T5/T4 Gb Ex e [ia Ga] IIC T6/T5/T4 Gb Ex ia IIC T6/T5/T4 Ga Ex tb IIIC T80°C/95°C/120°C Db IP66
IECEX certificate	IECEX IBE 09.0019	AEx certificate	E223792
IECEX marking	Ex eb IIC T6/T5/T4 Gb Ex eb ia [Ga] IIC T6/T5/T4 Gb Ex ia IIC T6/T5/T4 Ga Ex tb IIIC T80°C/T95°C/T100°C Db -60°C ≤ Ta ≤ +40/+55/+60 °C	AEx marking	Class I, Zone 1, AEx e IIC Gb T6..T4 Class I, Zone 2, AEx e IIC Gc T6..T4 Class I Div.2 Group A,B,C,D T6...T4 Class II Div.2 Group F,G Zone 21, AEx tb IIIC Db
KOSHA certificate	16-AV4B0-247X		
KOSHA marking	Ex eb IIC T6/T5/T4 Gb Ex eb ia [Ga] IIC T6/T5/T4 Gb Ex ia IIC T6/T5/T4 Ga Ex tb IIIC T80°C/T95°C/T100°C Db -60°C ≤ Ta ≤ +40/+55/+60 °C		
<b>Note</b>	If you have specific requirements for equipment operating in explosive hazard areas, please contact us at Weidmüller to receive a full copy of the certification. For details of power dissipation, please contact your Weidmüller representative.		

# Klippon® K – aluminium enclosure

## Robust enclosure for industrial applications

C

The aluminium Klippon® K enclosures are suitable for use in an extremely wide range of different areas. Various components can be installed inside the enclosures, and will benefit in particular from the high temperature resistance, the excellent IP protection and the good impact resistance.



### Standardised closure system

The cover is attached using captive TRX slotted screws. The highly functional screw connection with coated stainless steel screws allows for use even in corrosive atmospheres. Working with the enclosures requires just one single tool, as only TRX slotted screws are used.



### Earth studs

M6 brass earth studs and M10 stainless steel earth studs are available as accessories. Klippon® K Ex enclosures are fitted with an M4 earth stud as standard, and are available on request.



**High IP protection**

There are no glued areas on the moulded seal of the enclosure, which helps ensure optimal leak-tightness. The seal guarantees an IP protection of IP66 to IP68 (depending on the use).



**Mounting options**

The matching terminal rails or mounting plates are available as accessories and can be used to install a wide range of different components inside the enclosure.



**Versatile attachment options**

The enclosure can be attached directly using the designated attachment holes. Alternatively, it can be attached from the outside using the assembly feet that are available as accessories.



**Ex applications**

Klippon® K enclosures with explosion protection for use in explosive risk zones are optionally available.



**Customer-specific assembly**

Enjoy more flexibility in your project business with Klippon® Assembly Service. We combine reliable planning, professional engineering and production in the perfect quality to create your customised product.



# Klippon® K – Aluminium enclosures

Klippon® K-Series aluminium enclosures can be used in a variety of applications, e.g. for the assembly of modular terminal blocks, switches, power supplies, operational and display elements or electronic modules.

The extensive Klippon® K enclosure range has the following advantages:

- More flexibility – 22 different sizes
- Available in two surface finishes – powder-coated and natural
- Mounting holes not within the sealed area
- Fastening thread to attach mounting rails and plates
- Closed moulded gasket (no glue seam)

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponk](http://www.weidmueller.com/klipponk)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

## Overview of enclosures

### Ordering data

Description	Height x width x depth in mm	Powder-coated (RAL7001)*			Unpainted		
		Standard		Ex enclosure**	Standard		Ex enclosure**
		CR moulded seal	Silicone moulded seal**	Silicone moulded seal	CR moulded seal	"Silicone moulded seal***"	"Silicone moulded seal"
Klippon® K 0	45 x 50 x 30	9529090000	1937920000		5732000000	1939760000	
Klippon® K 01	64 x 58 x 34	9529100000	1937850000		1565240000	1939540000	
Klippon® K 02	64 x 98 x 34	9529110000	1937840000		1565250000	1939550000	
Klippon® K 1	70 x 70 x 45	9529120000	1937630000	1329630000	3420000000	1939560000	9526840000
Klippon® K 11	80 x 75 x 57	9529130000	1937910000	1329640000	5733000000	1939570000	9526850000
Klippon® K 2	70 x 100 x 45	9529140000	1937930000	1329650000	3421000000	1939580000	9526860000
Klippon® K 21	80 x 125 x 57	9529150000	1937830000	1328120000	5734000000	1939590000	9526870000
Klippon® K 3	70 x 165 x 45	9529160000	1937900000	1329670000	3422000000	1939600000	9526880000
Klippon® K 31	80 x 175 x 57	9529170000	1937820000	1329680000	5735000000	1939610000	9526890000
Klippon® K 32	80 x 250 x 55	9529180000	1937810000	1329690000	1565260000	1939620000	9526900000
Klippon® K 4	82 x 130 x 72	9529190000	1937890000	1329700000	3423000000	1939630000	9526910000
Klippon® K 41	120 x 122 x 81	9529200000	1937800000	1329710000	1565270000	1939640000	9526920000
Klippon® K 42	140 x 140 x 81	2934110000***	2934120000		2934130000***	2934140000	
Klippon® K 5	130 x 170 x 90	9529210000	1937860000	1329720000	3424000000	1939650000	9526930000
Klippon® K 51	120 x 220 x 81	9529220000	1937750000	1328130000	1565280000	1939660000	9526940000
Klippon® K 52	160 x 160 x 91	9529230000	1937740000	1329730000	1565290000	1939670000	9526950000
Klippon® K 6	160 x 200 x 100	9529240000	1937870000	1329740000	3425000000	1939690000	9526960000
Klippon® K 61	160 x 260 x 91	9529250000	1937730000	1328140000	5736000000	1939700000	9526970000
Klippon® K 7	160 x 350 x 100	9529260000	1937880000	1329750000	3426000000	1939710000	9526980000
Klippon® K 71	230 x 280 x 111	9529270000	1937720000	1329770000	5737000000	1939730000	9526990000
Klippon® K 75	230 x 330 x 180	2934170000***	2934180000		2934190000***	2934200000	
Klippon® K 79	310 x 400 x 180	2934230000***	2934240000		2934250000***	2934260000	

**Note** \*Colour variations may occur under certain circumstances, \*\*Delivery Time on request, Ex-enclosures available on request, \*\*\*on request

## Technical Overview

### Features

- Two surfaces: natural and powder-coated
- High IP protection up to IP68
- Moulded silicone gasket for applications with high temperatures
- A uniform TRX-slotted screw head is used for over 22 different enclosure sizes.
- Alloy is resistant to salt water
- Approved according to the latest international standards

**Note** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

### Technical data

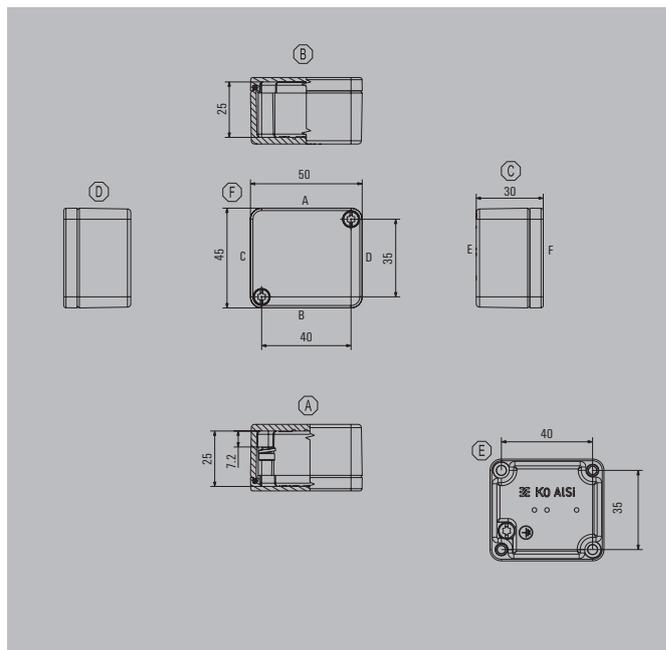
	Ex	Standard
Enclosure material	High quality aluminium alloy (Al-Si12)	High quality aluminium alloy (Al-Si12)
Surface, untreated	Smooth	Smooth
Surface, painted	Silver grey, textured, similar to RAL 7001	Silver grey, textured, similar to RAL 7001
Painting	50-90 µm paint thickness	50-90 µm paint thickness
IP protection class	IP66, IP67 to DIN EN 60529	IP66, IP67 and IP68* to DIN EN 60529
NEMA		4, 4x
Earthing outside	Earthing studs, M4	
Installation mounting	Flexible DIN rail mounting	Flexible DIN rail mounting
Enclosure mounting	Direct mounting with optional mounting brackets (from a size of 120 x 122 x 81 Klippon® K 41)	Direct mounting with optional mounting brackets (from a size of 120 x 122 x 81 Klippon® K 41)
Lid fixing	Captive stainless steel TRX 20 or slotted screws.	Captive stainless steel TRX 20 or slotted screws.
Impact resistance	7J to IEC 60079-0	IK 09 (10J) to DIN EN 50102
Gasket material	Silicone (VMQ)	Chloroprene / Silicone (VMQ)
Temperature range	-60 °C...+135 °C	-40 °C...+80 °C with chloroprene gasket / -60 °C...+135 °C with silicone gasket
Lid screws, torque**	2.5 Nm	2.5 Nm
<b>Note</b>	* (t=72h; h=1m) ** To secure the lid we recommend the use of our TRX T20 Screwdriver (2749520000) Depending on the screw head size, our slotted screwdriver may also be used as an alternative, Ex enclosures available on request	

### Approvals for empty enclosures

	Ex	Standard
ATEX certificate	IBExU12ATEX1144 U	
ATEX marking	II 2G Ex e IIC Gb or II 2G Ex eb IIC II 2D Ex t IIIC Db or II 2D Ex tb IIIC	
IECEX certificate	IECEX IBE 13.0001U	
IECEX marking	Ex e IIC Gb or Ex eb IIC Ex tb IIIC Db or Ex tb IIIC	
cULus	cULus E197061 (Ord. Loc.)	E197061
INMETRO	LMP 23.0526U	
DNV	TAE00002SM	TAE00002SM
Installation	The Klippon® K enclosure range can be pre-fitted in our customer specific production department according to your wishes.	
<b>Note</b>	This enclosure range is component certified. If other electrical components are inserted into the case, additional certification is required.	

### Approvals for control and distribution box

	Ex		
ATEX certificate	IBExU12ATEX1145 X	INMETRO certificate	LMP 23.0527X
ATEX marking	II 2G Ex e IIC T6...T4 Gb or II 2G Ex eb IIC T6...T4 II 2G Ex ia IIC T6...T4 Gb or II 2 Ex ia IIC T6...T4 II 2(1)G Ex e ia IIC T6...T4 Gb or II 2(1)G Ex eb ia IIC T6...T4 II 2D Ex t IIIC T85°C...135°C Db or II 2 D Ex tb IIIC T85°C...135°C	INMETRO marking	Ex eb IIC T6...T4 Gb IP66 Ex ia IIC T6...T4 Gb IP66 Ex eb ia IIC T6...T4 Gb IP66 Ex tb IIIC T85 °C...T135 °C Db IP66
IECEX certificate	IECEX IBE 13.0002X	CCCx certificate	2020322303000040
IECEX marking	Ex e IIC T6...T4 Gb or Ex eb IIC T6...T4 Ex ia IIC T6...T4 Gb Ex e ia IIC T6...T4 Gb Ex tb IIIC T85°C...135°C Db or Ex tb IIIC T85°C...135°C	CCCx marking	Ex e IIC T4/T5/T6 Gb Ex ia IIC T4/T5/T6 Ga Ex e ia IIC T4/T5/T6 Gb Ex tD A21 IP66 T80°C/T95°C/T130°C
<b>Note</b>	If you have specific requirements for equipment operating in explosive hazard areas, please contact us at Weidmüller to receive a full copy of the certification. For details of power dissipation, please contact your Weidmüller representative.		



Height / Width / Depth 45 / 50 / 30 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	<b>9529090000</b>
Standard (silicone seal)*	<b>1937920000</b>
unpainted	Order No.
Standard (CR seal)	<b>0573200000</b>
Standard (silicone seal)*	<b>1939760000</b>

**Note** The colours of painted enclosures may vary under certain circumstances.

**Accessories**

TRX screw driver	Order No.
not insulated, TRX T20	<b>2749520000</b>
Pressure compensation elements	Order No.
Polyamide 6, M12	<b>1868570000</b>
Stainless steel 1.4305, M12	<b>1868550000</b>

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	
	4 mm <sup>2</sup>	
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

**Note** \*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure.

**Guide value for max. number of cable entries**

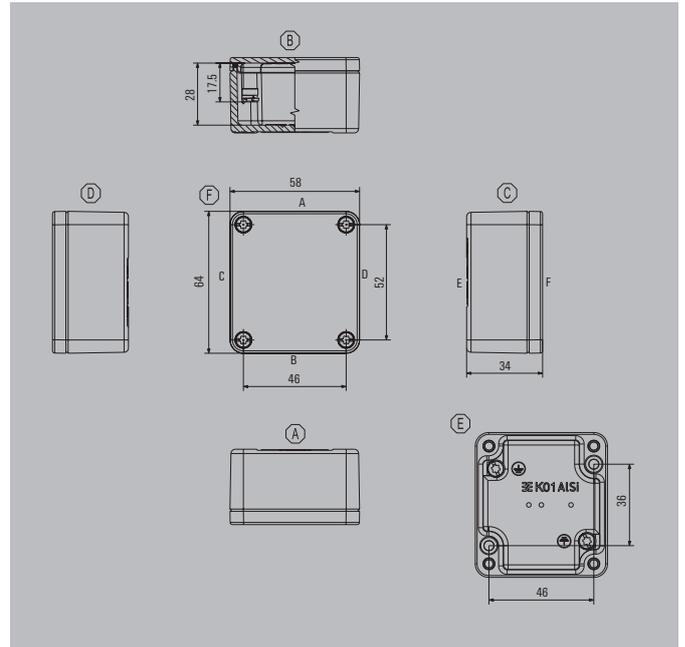
Cable entries	A / B	C / D
	M12	1
	M16	1
	M20	
	M25	
	M32	
	M40	
	M50	
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Note** Helicoil for outdoor applications on request.

Klippon® K 01

Depth **34 mm**



Height / Width / Depth 64 / 58 / 34 mm

**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529100000
	Standard (silicone seal)*	1937850000
unpainted		
	Standard (CR seal)	1565240000
	Standard (silicone seal)*	1939540000
Note	The colours of painted enclosures may vary under certain circumstances.	

**Accessories**

TRX screw driver		Order No.
	not insulated, TRX T20	2749520000
Pressure compensation elements		
	Polyamide 6, M12	1868570000
	Stainless steel 1.4305, M12	1868550000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	1x1*
	4 mm <sup>2</sup>	1x1*
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	



**Note**

\*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure.

**Guide value for max. number of cable entries**

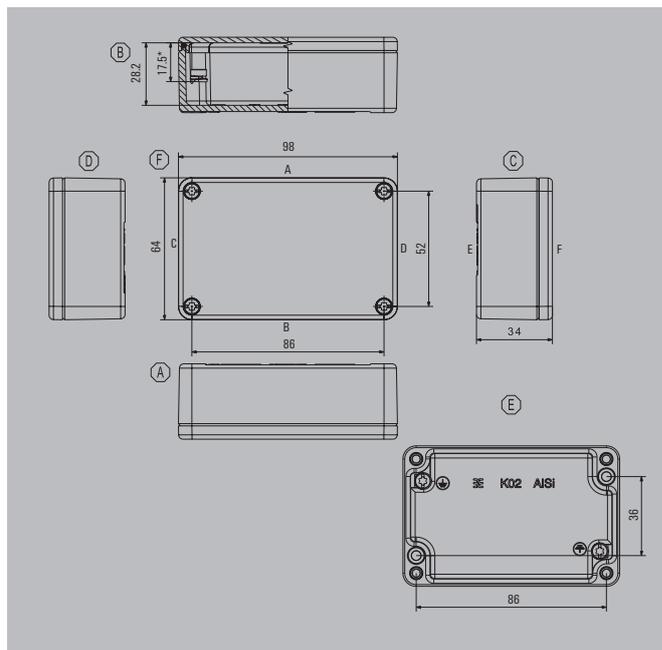
Cable entries	A / B	C / D
	M12	1
	M16	1
	M20	
	M25	
	M32	
	M40	
	M50	
	M63	



**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

**Note** Helicoil for outdoor applications on request.



Height / Width / Depth 64 / 98 / 34 mm

**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529110000
	Standard (silicone seal)*	1937840000
unpainted		
	Standard (CR seal)	1565250000
	Standard (silicone seal)*	1939550000
Note	The colours of painted enclosures may vary under certain circumstances.	

**Accessories**

TRX screw driver		Order No.
	not insulated, TRX T20	2749520000
Pressure compensation elements		
	Polyamide 6, M12	1868570000
	Stainless steel 1.4305, M12	1868550000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	
	4 mm <sup>2</sup>	
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

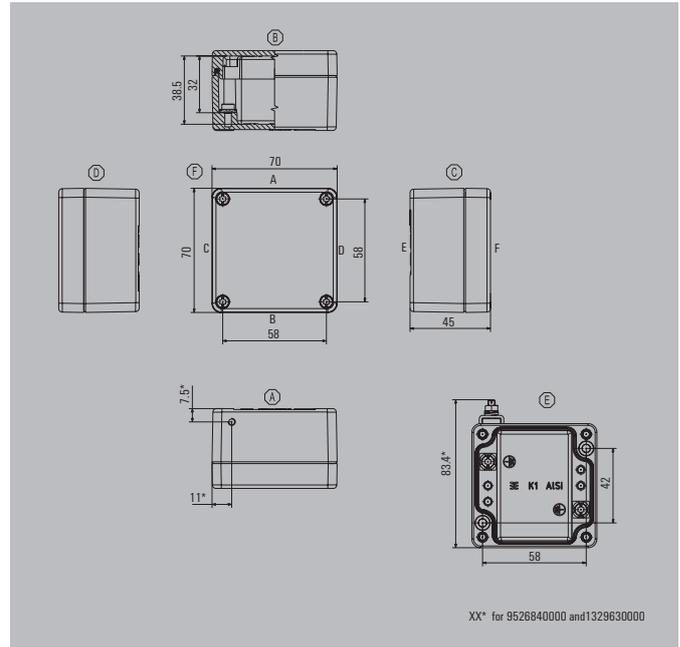
**Note** \*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
	M12	3
	M16	3
	M20	2
	M25	
	M32	
	M40	
	M50	
	M63	

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Note** Helicoil for outdoor applications on request.



Height / Width / Depth 70 / 70 / 45 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529120000
Standard (silicone seal)*	1937630000
Ex enclosure (silicone seal)	1329630000
unpainted	Order No.
Standard (CR seal)	0342000000
Standard (silicone seal)*	1939560000
Ex enclosure (silicone seal)	9526840000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Mounting plate	Order No.
Steel sheet, zinc plated	1905280000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x1*	1x5
4 mm <sup>2</sup>	1x1*	1x1*
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. For vertical installations, we recommend using not more than one BK 4 or BK 4 CRN (0625120000). For horizontal installations with 2.5mm<sup>2</sup> 1x5 AKZ terminal blocks (only possible on a TS 15) for 4mm<sup>2</sup>, use not more than one BK 4. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

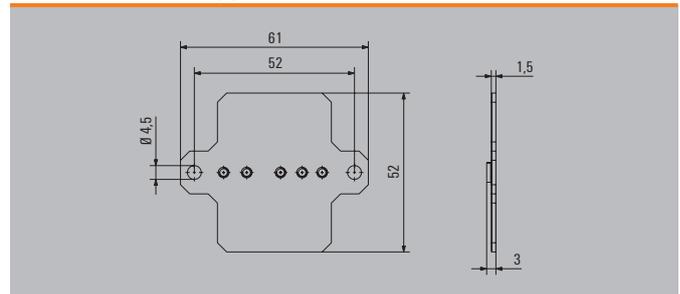
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	2	1
M16	2	1
M20	1	
M25		
M32		
M40		
M50		
M63		

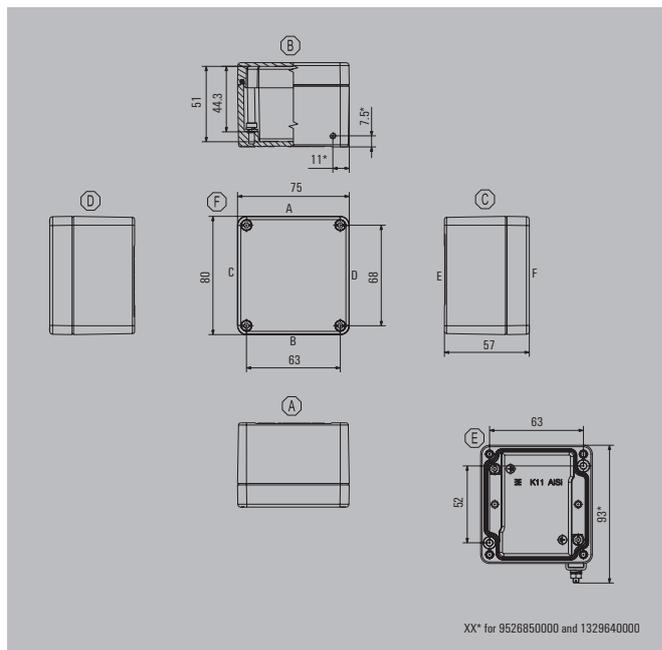


**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note** The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications on request.



XX\* for 9526850000 and 1329640000

Height / Width / Depth	80 / 75 / 57 mm
------------------------	-----------------

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529130000
Standard (silicone seal)*	1937910000
Ex enclosure (silicone seal)	1329640000
unpainted	Order No.
Standard (CR seal)	0573300000
Standard (silicone seal)*	1939570000
Ex enclosure (silicone seal)	9526850000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Terminal rail, Set	Order No.
15 mm width	1909990000
Mounting plate	Order No.
Steel sheet, zinc plated	3073000000
Hinge, diecast zinc, Set	Order No.
	1580360000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x1*	1x5
4 mm <sup>2</sup>	1x1*	1x4
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

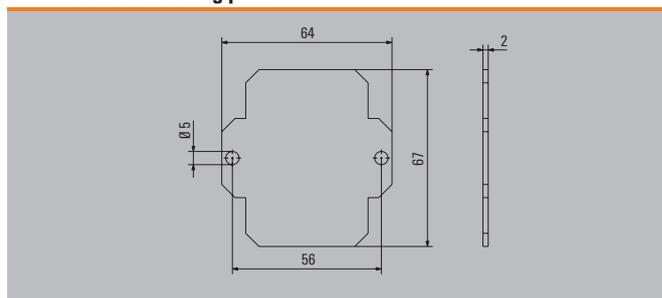
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	2	2
M16	2	2
M20	1	1
M25	1	
M32		
M40		
M50		
M63		



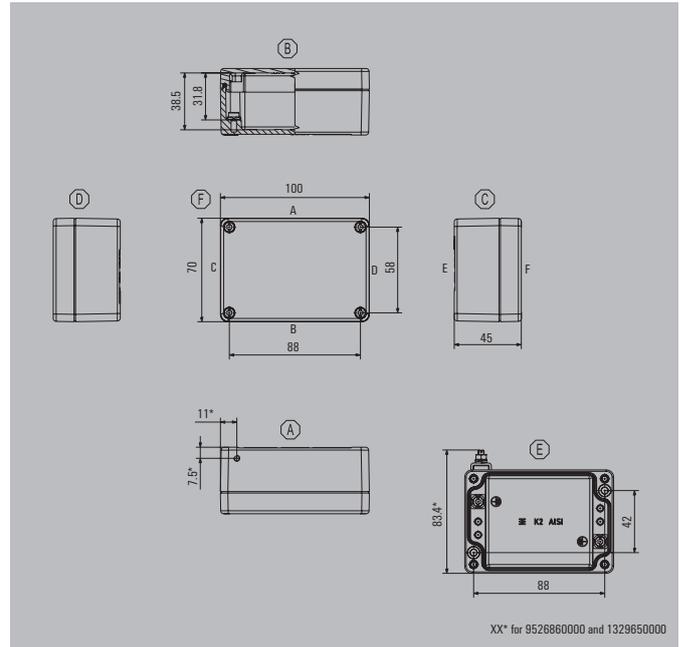
**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



Klippon® K 2

Depth 45 mm



Height / Width / Depth 70 / 100 / 45 mm

Ordering data

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529140000
	Standard (silicone seal)*	1937930000
	Ex enclosure (silicone seal)	1329650000
unpainted		
	Standard (CR seal)	0342100000
	Standard (silicone seal)*	1939580000
	Ex enclosure (silicone seal)	9526860000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

Accessories

Terminal rail, Set		Order No.
	15 mm width	1910010000
Mounting plate		
	Steel sheet, zinc plated	1905270000
TRX screw driver		
	not insulated, TRX T20	2749520000
Earthing stud		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
Pressure compensation elements		
	Polyamide 6, M12	1868570000
	Stainless steel 1.4305, M12	1868550000

**Note** The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications on request.

Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	
	4 mm <sup>2</sup>	
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

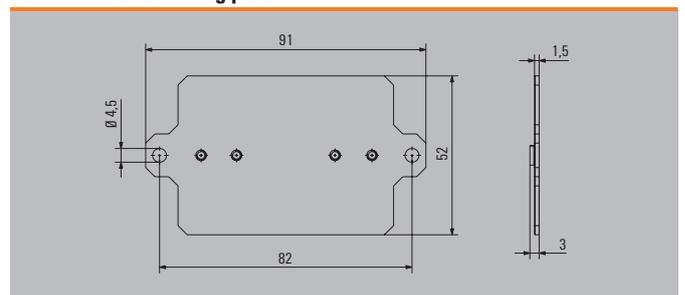
**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

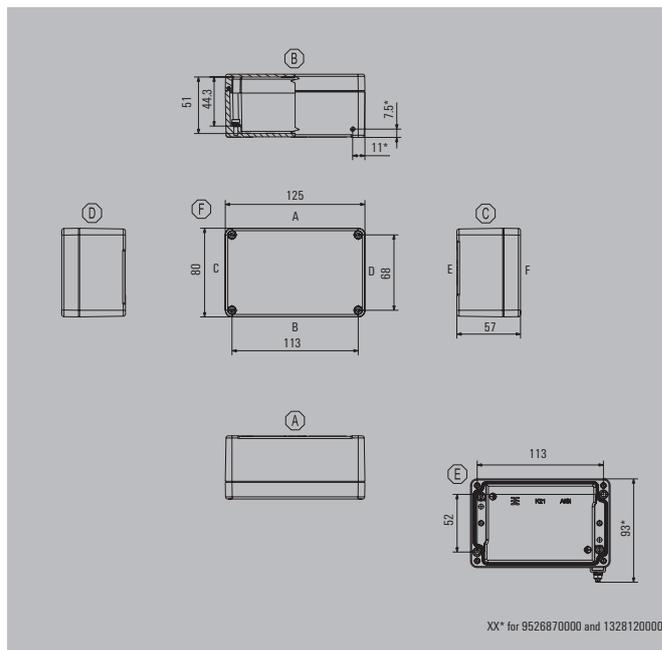
Guide value for max. number of cable entries

Cable entries	A / B	C / D
	M12	3
	M16	3
	M20	2
	M25	
	M32	
	M40	
	M50	
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate





XX\* for 9526870000 and 1328120000

Height / Width / Depth 80 / 125 / 57 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529150000
Standard (silicone seal)*	1937830000
Ex enclosure (silicone seal)	1328120000
unpainted	Order No.
Standard (CR seal)	0573400000
Standard (silicone seal)*	1939590000
Ex enclosure (silicone seal)	9526870000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Terminal rail, Set	Order No.
15 mm width	1910020000
Mounting plate	Order No.
Steel sheet, zinc plated	3073020000
Hinge, diecast zinc, Set	Order No.
	1580360000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x15
4 mm <sup>2</sup>	*	1x12
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

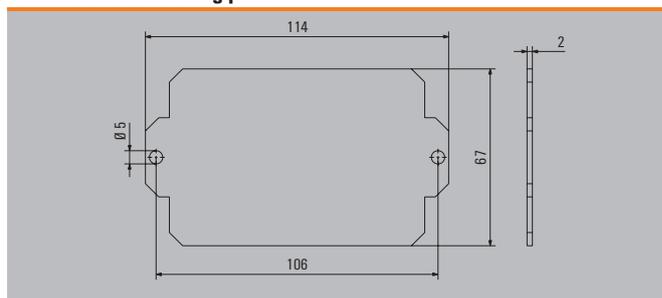
**Guide value for max. number of cable entries**

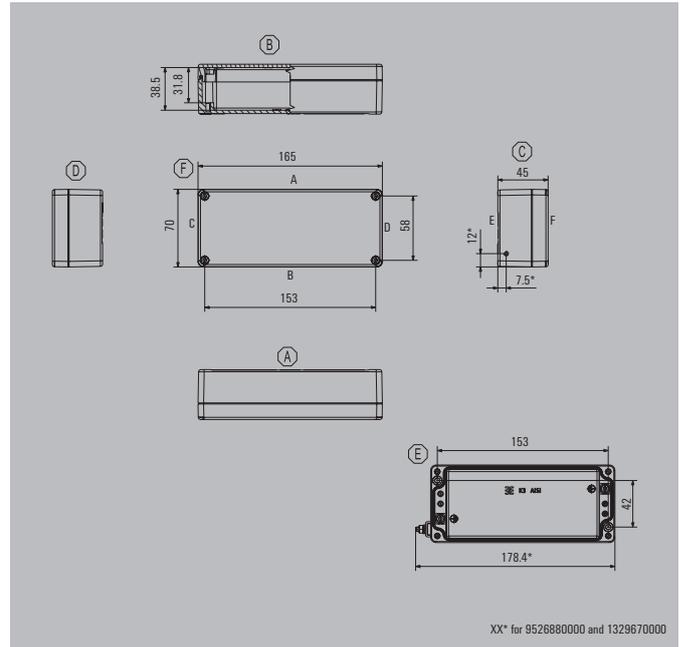
Cable entries	A / B	C / D
M12	6	2
M16	4	2
M20	3	1
M25	2	
M32		
M40		
M50		
M63		



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 70 / 165 / 45 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529160000
Standard (silicone seal)*	1937900000
Ex enclosure (silicone seal)	1329670000
unpainted	Order No.
Standard (CR seal)	0342200000
Standard (silicone seal)*	1939600000
Ex enclosure (silicone seal)	9526880000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Terminal rail, Set	Order No.
15 mm width	1910030000
Mounting plate	Order No.
Steel sheet, zinc plated	1898210000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x22
4 mm <sup>2</sup>	*	
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		

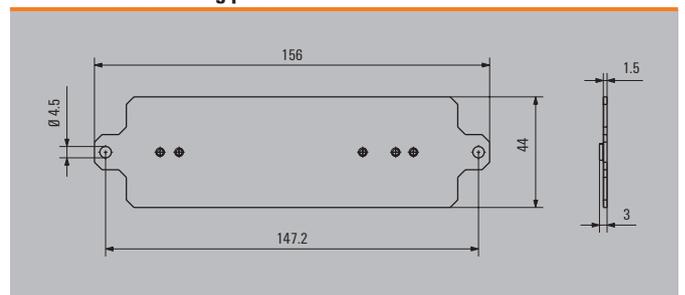
**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

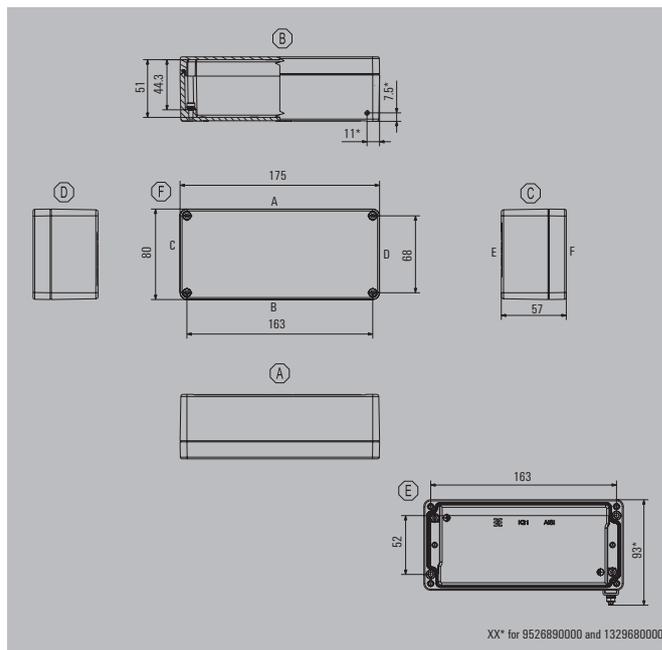
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	6	1
M16	5	1
M20	4	
M25		
M32		
M40		
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 80 / 175 / 57 mm

Ordering data

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529170000
Standard (silicone seal)*	1937820000
Ex enclosure (silicone seal)	1329680000
unpainted	Order No.
Standard (CR seal)	0573500000
Standard (silicone seal)*	1939610000
Ex enclosure (silicone seal)	9526890000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

Accessories

Terminal rail, Set	Order No.
15 mm width	1910040000
Mounting plate	Order No.
Steel sheet, zinc plated	3073040000
Hinge, diecast zinc, Set	Order No.
	1580360000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x23
4 mm <sup>2</sup>	*	1x19
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

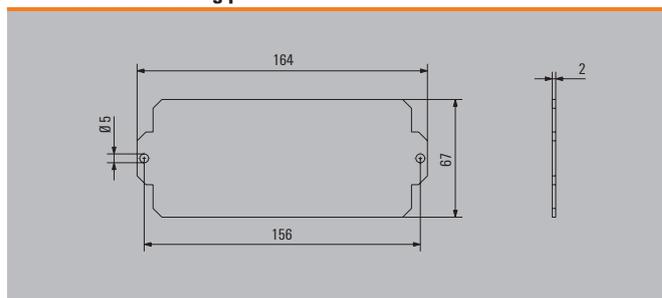
Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	9	2
M16	6	2
M20	4	1
M25	3	
M32		
M40		
M50		
M63		



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate





Height / Width / Depth 80 / 250 / 55 mm

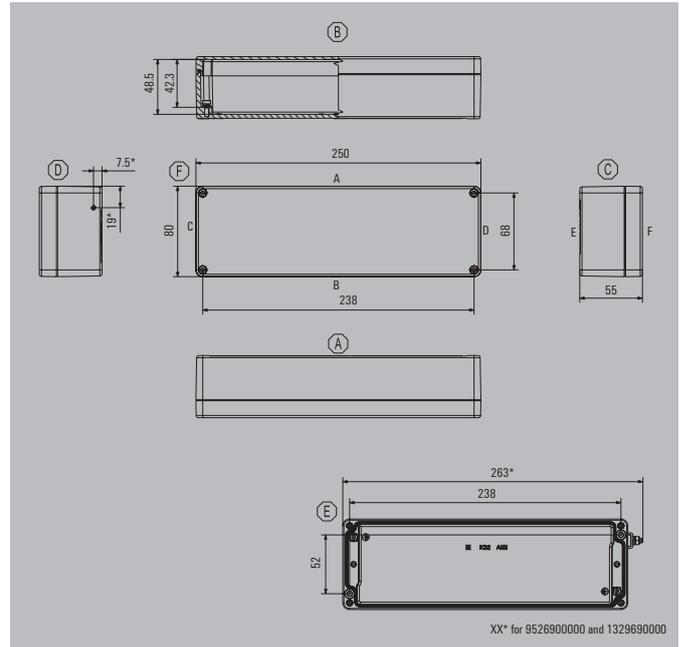
**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529180000
	Standard (silicone seal)*	1937810000
	Ex enclosure (silicone seal)	1329690000
unpainted		
	Standard (CR seal)	1565260000
	Standard (silicone seal)*	1939620000
	Ex enclosure (silicone seal)	9526900000
<b>Note</b>	The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.	

**Accessories**

Mounting plate		Order No.
	Steel sheet, zinc plated	3073050000
TRX screw driver		
	not insulated, TRX T20	2749520000
Earthing stud		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
Pressure compensation elements		
	Stainless steel 1.4305, M12	1868550000
	Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications on request.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	*
	4 mm <sup>2</sup>	*
	6 mm <sup>2</sup>	1x38
	10 mm <sup>2</sup>	1x32
	16 mm <sup>2</sup>	



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

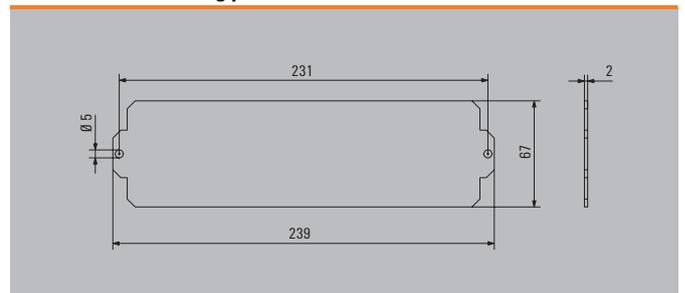
**Guide value for max. number of cable entries**

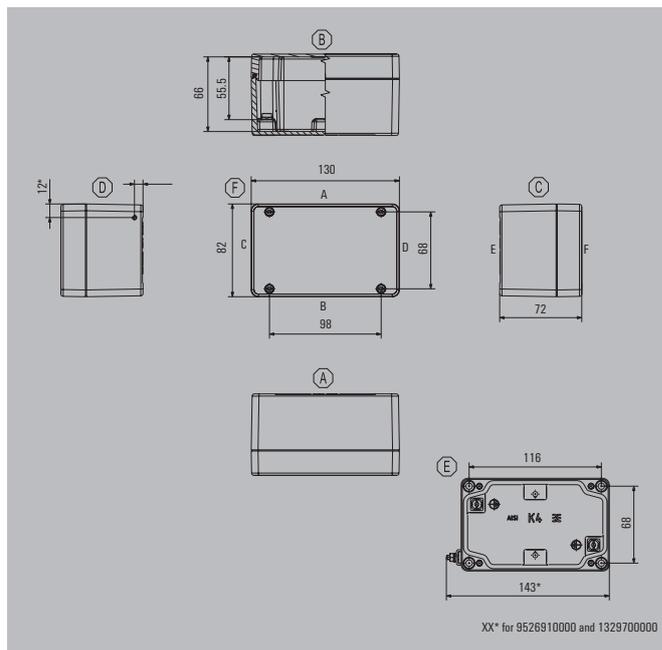
Cable entries	A / B	C / D
	M12	15
	M16	9
	M20	7
	M25	6
	M32	
	M40	
	M50	
	M63	



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 82 / 130 / 72 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529190000
Standard (silicone seal)*	1937890000
Ex enclosure (silicone seal)	1329700000
unpainted	Order No.
Standard (CR seal)	0342300000
Standard (silicone seal)*	1939630000
Ex enclosure (silicone seal)	9526910000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

<b>Terminal rail, Set</b>	Order No.
35 mm width	1910060000
<b>Mounting plate</b>	Order No.
Steel sheet, zinc plated	3073060000
<b>Hinge, diecast zinc, Set</b>	Order No.
	1580360000
<b>TRX screw driver</b>	Order No.
not insulated, TRX T20	2749520000
<b>Earthing stud</b>	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** Sets also contain the mounting material, if necessary. 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x5	*
4 mm <sup>2</sup>	1x4	*
6 mm <sup>2</sup>	1x3	
10 mm <sup>2</sup>	1x2	
16 mm <sup>2</sup>		



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations: TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000 \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0825220000) for horizontal installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a horizontal position.

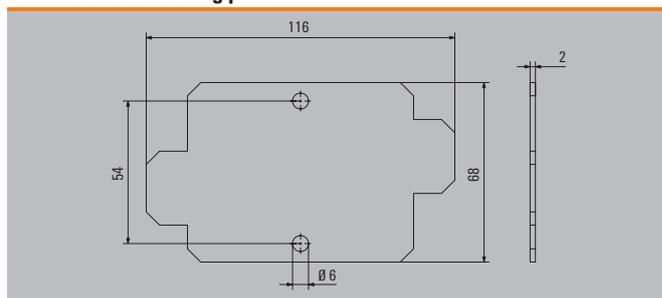
**Guide value for max. number of cable entries**

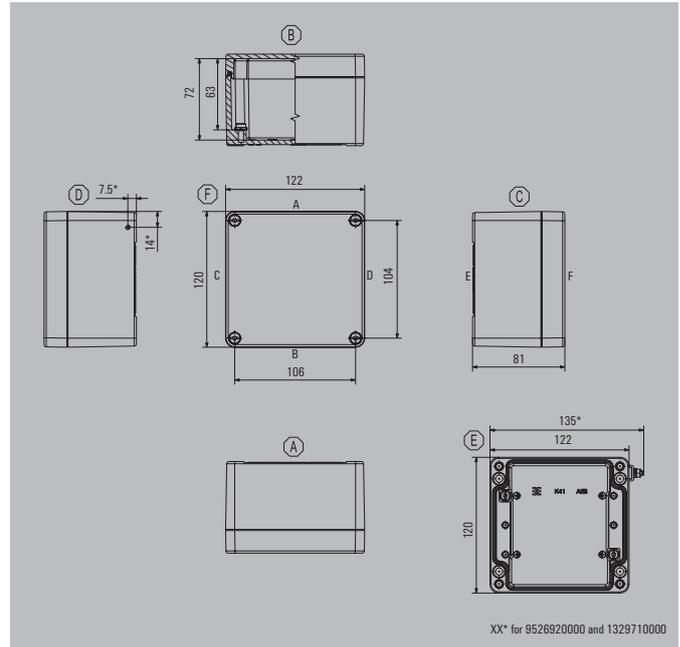
Cable entries	A / B	C / D
M12	5	2
M16	3	2
M20	2	1
M25	2	1
M32		1
M40		
M50		
M63		



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 120 / 122 / 81 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529200000
Standard (silicone seal)*	1937800000
Ex enclosure (silicone seal)	1329710000
unpainted	Order No.
Standard (CR seal)	1565270000
Standard (silicone seal)*	1939640000
Ex enclosure (silicone seal)	9526920000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

<b>Terminal rail, Set</b>	Order No.
35 mm width	1910070000
<b>Mounting plate</b>	Order No.
Steel sheet, zinc plated	3073070000
<b>Hinge, diecast zinc, Set</b>	Order No.
	1580360000
<b>External mounting feet, set of 4</b>	Order No.
Stainless steel 1.4301, natural	9527590000
<b>TRX screw driver</b>	Order No.
not insulated, TRX T20	2749520000
<b>Earthing stud</b>	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x13
4 mm <sup>2</sup>	*	1x11
6 mm <sup>2</sup>		1x8
10 mm <sup>2</sup>		1x6
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

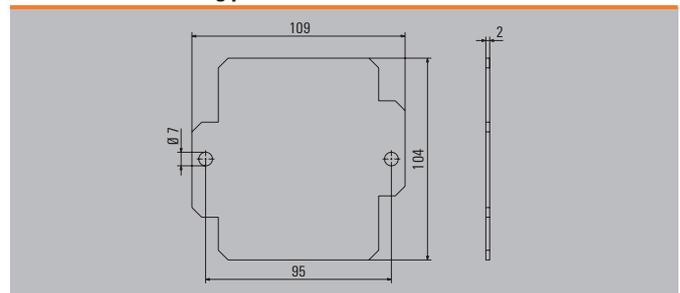
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	6	4
M16	6	4
M20	3	2
M25	2	1
M32	1	1
M40		
M50		
M63		

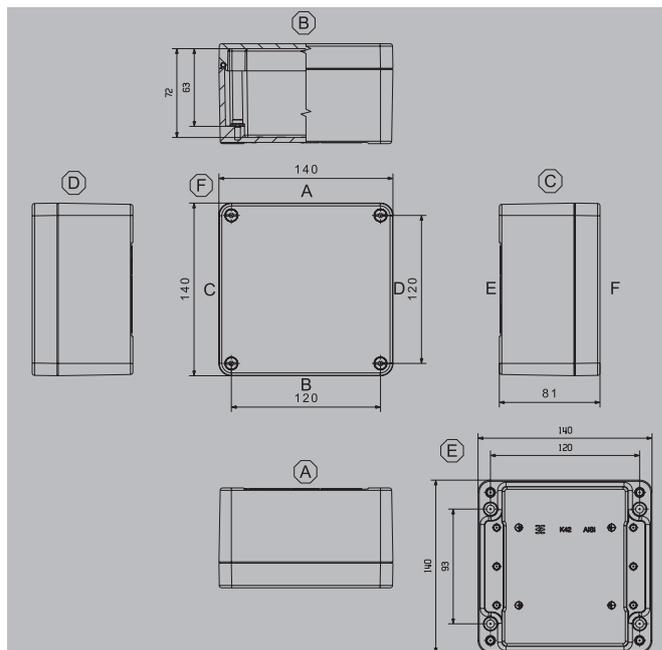


**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.



Height / Width / Depth 140 / 140 / 81 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	2934110000
Standard (silicone seal)*	2934120000
unpainted	Order No.
Standard (CR seal)	2934130000
Standard (silicone seal)*	2934140000

**Note** The colours of painted enclosures may vary under certain circumstances.

**Accessories**

Terminal rail, Set	Order No.
15 mm width	8000135661
	8000135662
35 mm width	8000135673
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
TRX screw driver	2749520000
Earthing stud	1277250000
Brass, M6	1283430000
Stainless steel 1.4404, M6	1277220000
Brass, M10	1283440000
Stainless steel 1.4404, M10	
Pressure compensation elements	1868550000
Stainless steel 1.4305, M12	1868570000
Polyamide 6, M12	

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	1x19
	4 mm <sup>2</sup>	1x16
	6 mm <sup>2</sup>	1x12
	10 mm <sup>2</sup>	1x10
	16 mm <sup>2</sup>	1x8



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

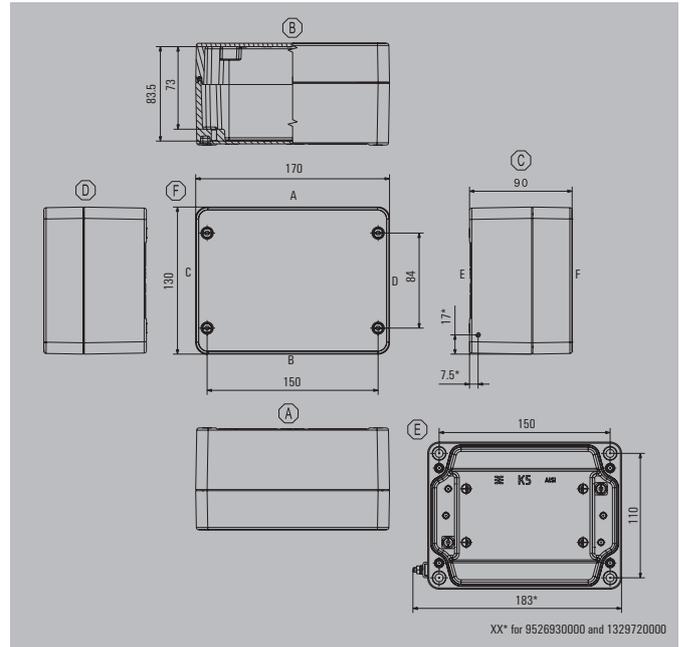
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
	M12	6
	M16	4
	M20	3
	M25	3
	M32	1
	M40	1
	M50	
	M63	



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Note**



Height / Width / Depth 130 / 170 / 90 mm

**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529210000
	Standard (silicone seal)*	1937860000
	Ex enclosure (silicone seal)	1329720000
<b>unpainted</b>		
	Standard (CR seal)	0342400000
	Standard (silicone seal)*	1939650000
	Ex enclosure (silicone seal)	9526930000
<b>Note</b>	The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.	

**Accessories**

Terminal rail, Set		Order No.
	35 mm width	1910080000
<b>Mounting plate</b>		
	Steel sheet, zinc plated	3073080000
<b>Hinge, diecast zinc, Set</b>		
		1580360000
<b>External mounting feet, set of 4</b>		
	Stainless steel 1.4301, natural	9529080000
<b>TRX screw driver</b>		
	not insulated, TRX T20	2749520000
<b>Earthing stud</b>		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
	Brass, M10	1277220000
	Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>		
	Stainless steel 1.4305, M12	1868550000
	Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	* 1x20
	4 mm <sup>2</sup>	* 1x17
	6 mm <sup>2</sup>	1x12
	10 mm <sup>2</sup>	1x10
	16 mm <sup>2</sup>	1x8



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

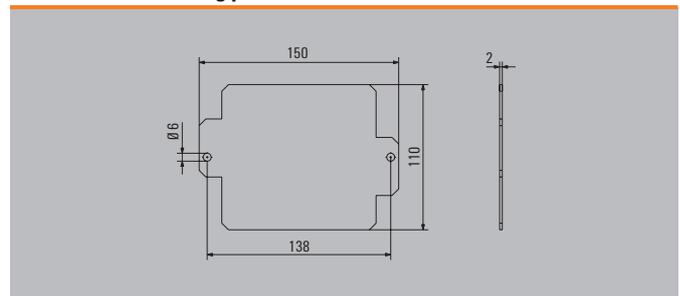
**Guide value for max. number of cable entries**

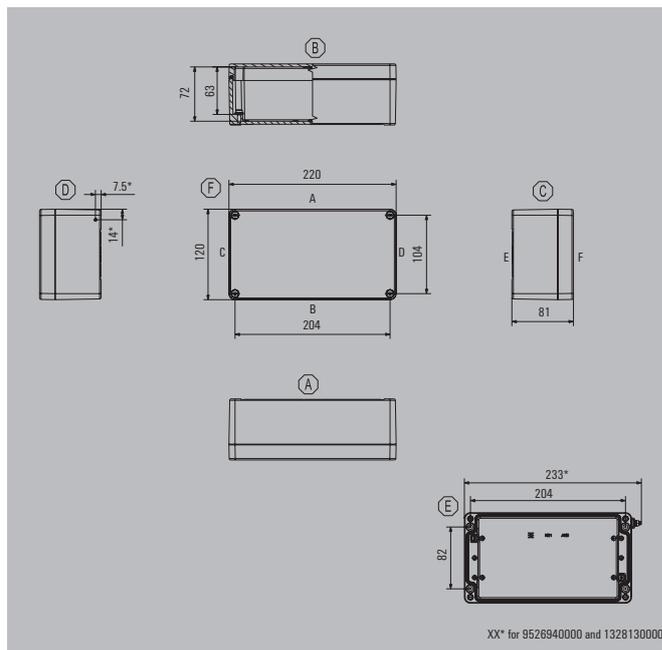
Cable entries	A / B	C / D
	M12	11 4
	M16	8 2
	M20	4 1
	M25	3 1
	M32	2 1
	M40	
	M50	
	M63	



**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 120 / 220 / 81 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529220000
Standard (silicone seal)*	1937750000
Ex enclosure (silicone seal)	1328130000
<b>unpainted</b>	
Standard (CR seal)	1565280000
Standard (silicone seal)*	1939660000
Ex enclosure (silicone seal)	9526940000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

<b>Terminal rail, Set</b>	Order No.
35 mm width	1910090000
<b>Mounting plate</b>	
Steel sheet, zinc plated	3073090000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>External mounting feet, set of 4</b>	
Stainless steel 1.4301, natural	9527590000
<b>TRX screw driver</b>	
not insulated, TRX T20	2749520000
<b>Earthing stud</b>	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x31
4 mm <sup>2</sup>	*	1x26
6 mm <sup>2</sup>		1x19
10 mm <sup>2</sup>		1x16
16 mm <sup>2</sup>		

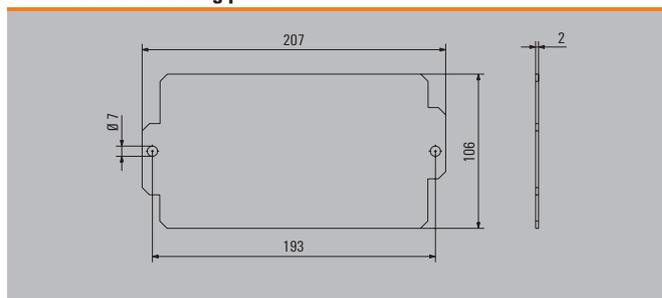
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

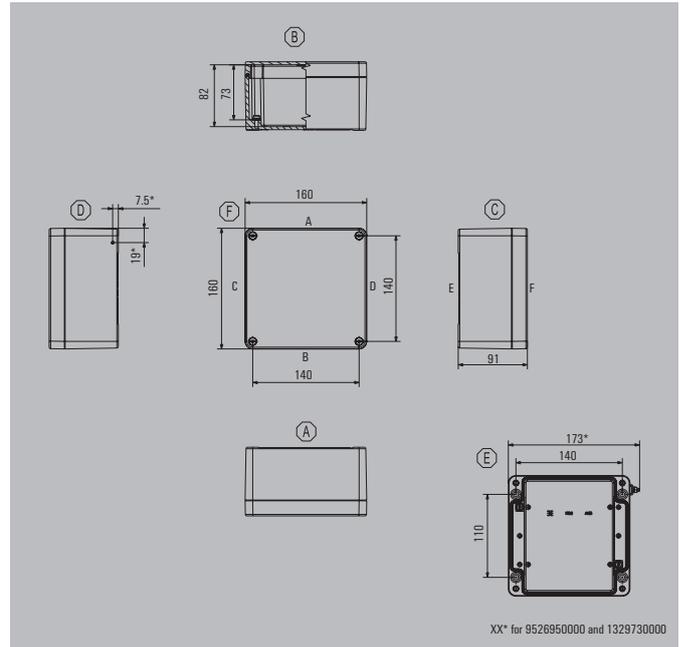
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	23	6
M16	14	3
M20	8	2
M25	5	1
M32	3	1
M40	3	
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 160 / 160 / 91 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529230000
Standard (silicone seal)*	1937740000
Ex enclosure (silicone seal)	1329730000
unpainted	Order No.
Standard (CR seal)	1565290000
Standard (silicone seal)*	1939670000
Ex enclosure (silicone seal)	9526950000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Terminal rail, Set	Order No.
35 mm width	1910100000
Mounting plate	Order No.
Steel sheet, zinc plated	3073100000
Hinge, diecast zinc, Set	Order No.
	1580360000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	9527590000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x16
4 mm <sup>2</sup>	*	1x13
6 mm <sup>2</sup>		1x10
10 mm <sup>2</sup>		1x8
16 mm <sup>2</sup>		1x6

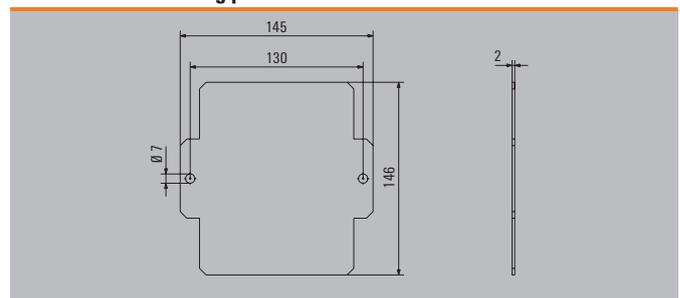
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

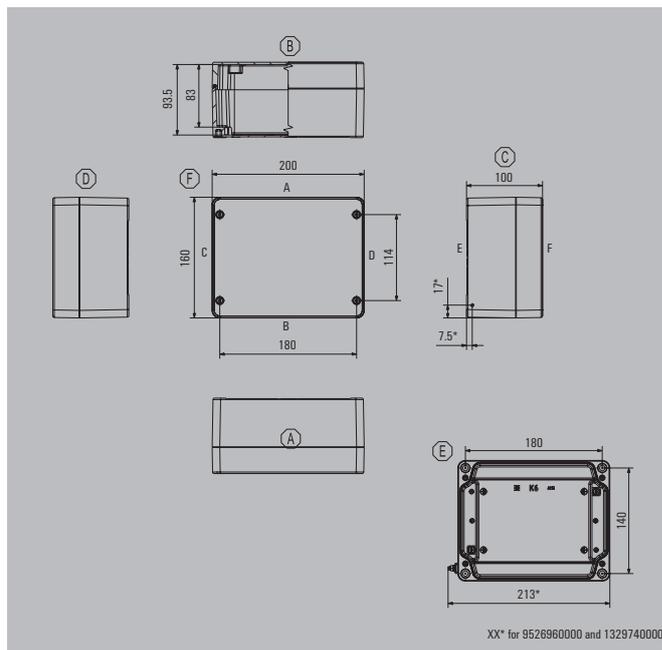
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	14	8
M16	8	5
M20	5	3
M25	3	2
M32	2	1
M40	1	
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 160 / 200 / 100 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529240000
Standard (silicone seal)*	1937870000
Ex enclosure (silicone seal)	1329740000
unpainted	Order No.
Standard (CR seal)	0342500000
Standard (silicone seal)*	1939690000
Ex enclosure (silicone seal)	9526960000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

<b>Terminal rail, Set</b>	Order No.
35 mm width	1910110000
<b>Mounting plate</b>	Order No.
Steel sheet, zinc plated	3073110000
<b>Hinge, diecast zinc, Set</b>	Order No.
	1580360000
<b>External mounting feet, set of 4</b>	Order No.
Stainless steel 1.4301, natural	9529080000
<b>TRX screw driver</b>	Order No.
not insulated, TRX T20	2749520000
<b>Earthing stud</b>	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x25
4 mm <sup>2</sup>	*	1x21
6 mm <sup>2</sup>		1x16
10 mm <sup>2</sup>		1x12
16 mm <sup>2</sup>		1x10

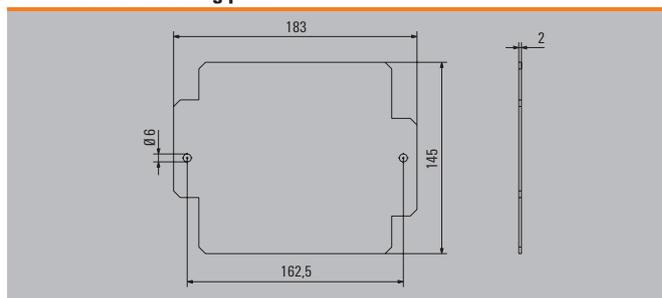
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

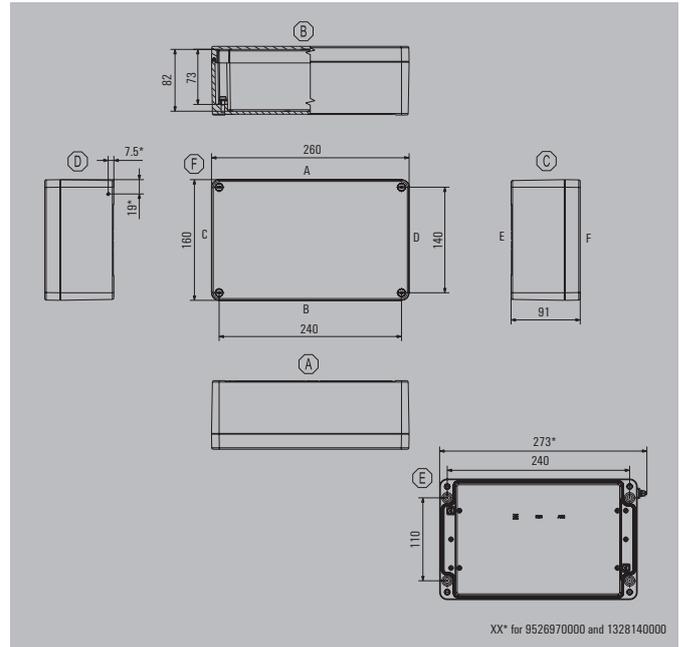
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	17	6
M16	12	6
M20	7	3
M25	4	2
M32	3	2
M40	2	1
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 160 / 260 / 91 mm

**Ordering data**

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529250000
Standard (silicone seal)*	1937730000
Ex enclosure (silicone seal)	1328140000
unpainted	Order No.
Standard (CR seal)	0573600000
Standard (silicone seal)*	1939700000
Ex enclosure (silicone seal)	9526970000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

**Accessories**

Terminal rail, Set	Order No.
35 mm width	1910120000
Mounting plate	Order No.
Steel sheet, zinc plated	3073120000
Hinge, diecast zinc, Set	Order No.
	1580360000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	9527590000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications on request.

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x39
4 mm <sup>2</sup>	*	1x33
6 mm <sup>2</sup>		1x24
10 mm <sup>2</sup>		1x20
16 mm <sup>2</sup>		1x16

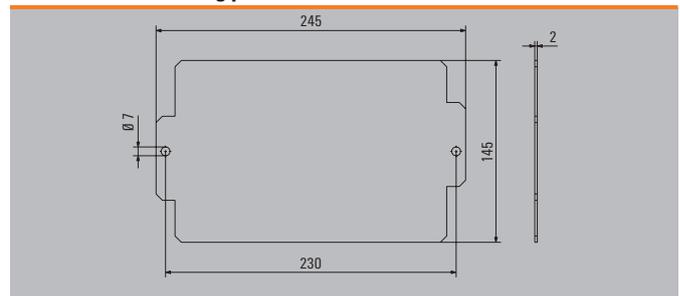
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

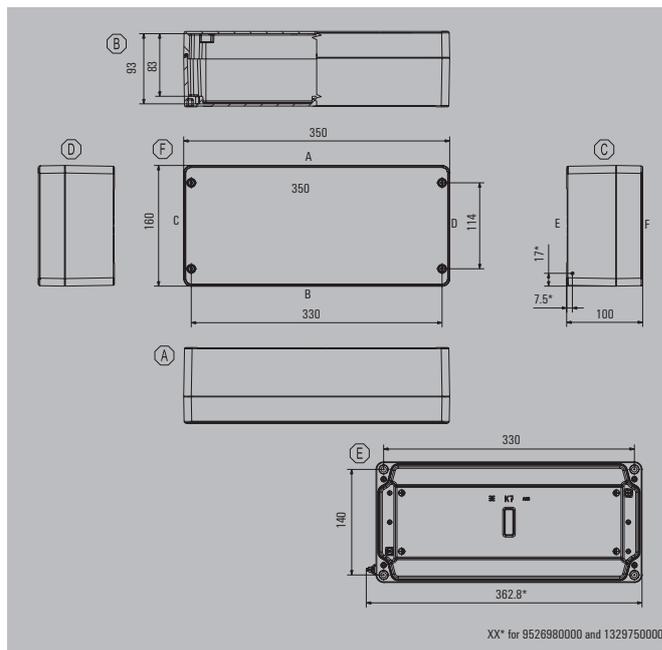
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	27	8
M16	23	6
M20	13	3
M25	8	2
M32	4	1
M40	3	1
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 160 / 350 / 100 mm

Ordering data

powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529260000
Standard (silicone seal)*	1937880000
Ex enclosure (silicone seal)	1329750000
unpainted	Order No.
Standard (CR seal)	0342600000
Standard (silicone seal)*	1939710000
Ex enclosure (silicone seal)	9526980000

**Note** The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.

Accessories

Terminal rail, Set	Order No.
35 mm width	1910130000
Mounting plate	Order No.
Steel sheet, zinc plated	3073130000
Hinge, diecast zinc, Set	Order No.
	1580360000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	9529080000
TRX screw driver	Order No.
not insulated, TRX T20	2749520000
Earthing stud	Order No.
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	Order No.
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x55
4 mm <sup>2</sup>	*	1x46
6 mm <sup>2</sup>		1x34
10 mm <sup>2</sup>		1x28
16 mm <sup>2</sup>		1x23

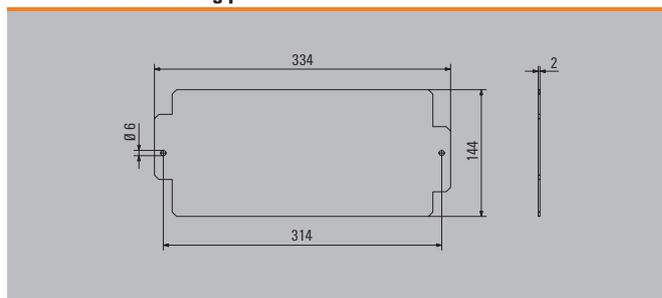
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Cable entries	A / B	C / D
M12	42	8
M16	26	6
M20	17	3
M25	10	2
M32	6	2
M40	5	1
M50		
M63		

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications on request.



Height / Width / Depth 230 / 280 / 111 mm

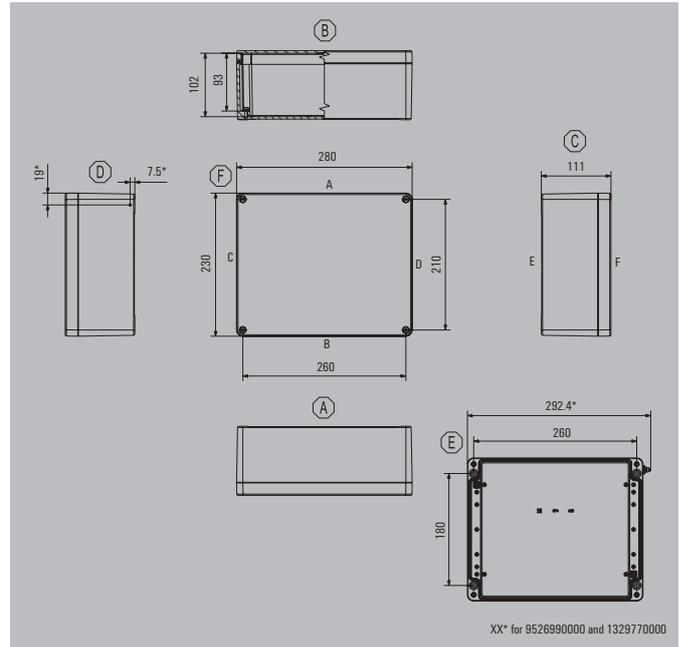
**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	9529270000
	Standard (silicone seal)*	1937720000
	Ex enclosure (silicone seal)	1329770000
unpainted		
	Standard (CR seal)	0573700000
	Standard (silicone seal)*	1939730000
	Ex enclosure (silicone seal)	9526990000
<b>Note</b>	The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request.	

**Accessories**

Terminal rail, Set		Order No.
	35 mm width	1910140000
Mounting plate		
	Steel sheet, zinc plated	3073140000
Hinge, diecast zinc, Set		1580360000
External mounting feet, set of 4		
	Stainless steel 1.4301, natural	9527590000
TRX screw driver		
	not insulated, TRX T20	2749520000
Earthing stud		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
	Brass, M10	1277220000
	Stainless steel 1.4404, M10	1283440000
Pressure compensation elements		
	Stainless steel 1.4305, M12	1868550000
	Polyamide 6, M12	1868570000

**Note** The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications on request.



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	* 2x43
	4 mm <sup>2</sup>	* 2x36
	6 mm <sup>2</sup>	2x26
	10 mm <sup>2</sup>	2x21
	16 mm <sup>2</sup>	2x17

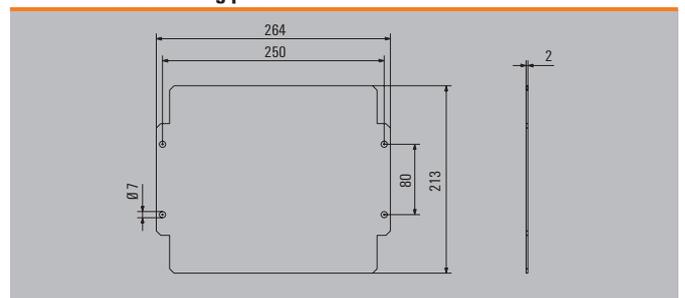
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

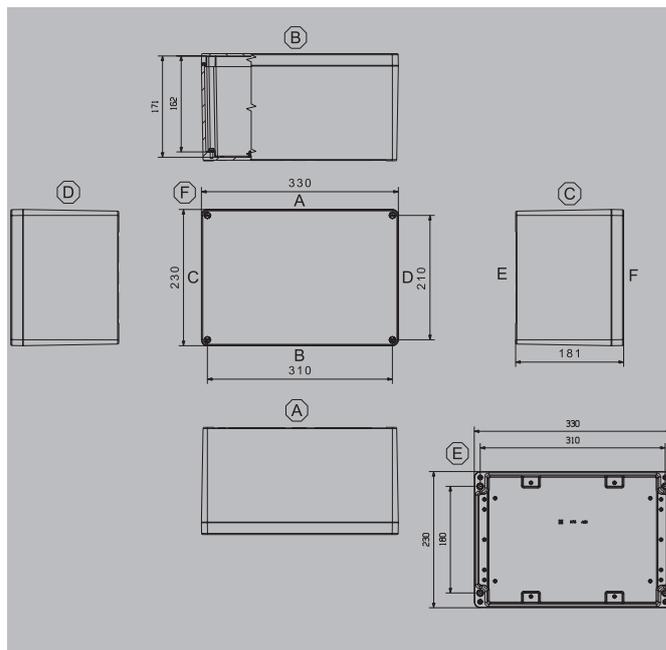
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
	M12	42 / 28
	M16	30 / 18
	M20	21 / 10
	M25	12 / 8
	M32	10 / 3
	M40	4 / 2
	M50	3 / 2
	M63	

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 230 / 330 / 181 mm

**Ordering data**

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	2934170000
	Standard (silicone seal)*	2934180000
unpainted		
	Standard (CR seal)	2934190000
	Standard (silicone seal)*	2934200000
Note	The colours of painted enclosures may vary under certain circumstances.	

**Accessories**

Terminal rail, Set		Order No.
	Horizontally	8000135663
	Vertically	8000135665
Hinge, diecast zinc, Set		1580360000
External mounting feet, set of 4		
	Stainless steel 1.4301, natural	9527590000
TRX screw driver		2749520000
	not insulated, TRX T20	
Earthing stud		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
	Brass, M10	1277220000
	Stainless steel 1.4404, M10	1283440000
Pressure compensation elements		
	Stainless steel 1.4305, M12	1868550000
	Polyamide 6, M12	1868570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	2x34
	4 mm <sup>2</sup>	2x29
	6 mm <sup>2</sup>	2x22
	10 mm <sup>2</sup>	2x17
	16 mm <sup>2</sup>	2x15



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
 Order recommendations:  
 TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
 Ordering information for the terminal blocks, please refer to the online catalogue.  
 \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
	M12	72
	M16	36
	M20	32
	M25	18
	M32	10
	M40	8
	M50	4
	M63	2

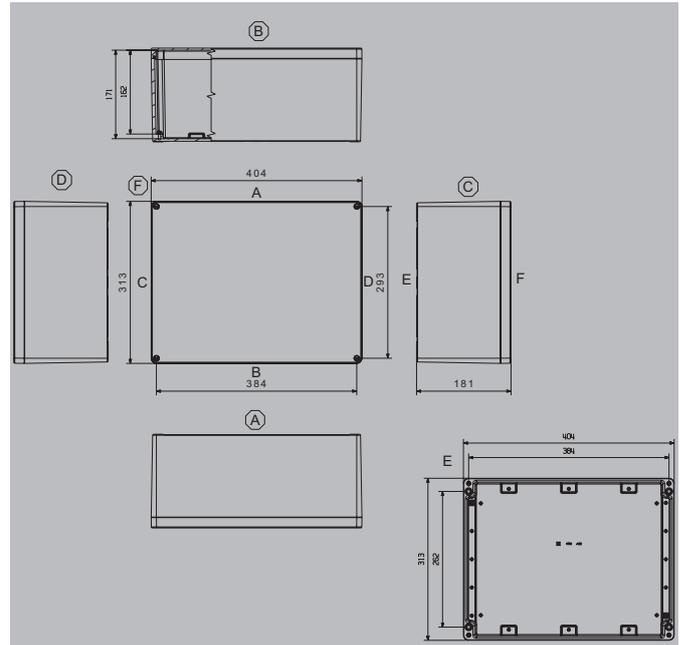


**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

Note

Klippon® K 79

Depth 181 mm



Height / Width / Depth 313 / 404 / 181 mm

Ordering data

powder-coated (RAL 7001)		Order No.
	Standard (CR seal)	2934230000
	Standard (silicone seal)*	2934240000
unpainted		
	Standard (CR seal)	2934250000
	Standard (silicone seal)*	2934260000

**Note** The colours of painted enclosures may vary under certain circumstances.

Accessories

Terminal rail, Set		Order No.
	Horizontally	8000135667
	Vertically	8000135669
<b>Hinge, diecast zinc, Set</b>		<b>1580360000</b>
<b>External mounting feet, set of 4</b>		
	Stainless steel 1.4301, natural	9527590000
<b>TRX screw driver</b>		
	not insulated, TRX T20	2749520000
<b>Earthing stud</b>		
	Brass, M6	1277250000
	Stainless steel 1.4404, M6	1283430000
	Brass, M10	1277220000
	Stainless steel 1.4404, M10	1283440000
<b>Pressure compensation elements</b>		
	Stainless steel 1.4305, M12	1868550000
	Polyamide 6, M12	1868570000

Guide value for max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	
	4 mm <sup>2</sup>	
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Order recommendations: TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology. Ordering information for the terminal blocks, please refer to the online catalogue. \*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Cable entries	A / B	C / D
	M12	
	M16	
	M20	
	M25	
	M32	
	M40	
	M50	
	M63	

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

**Note**

# Klippon® POK – Polyester Enclosures

Universal terminal boxes for standard industrial applications and for potentially explosive atmospheres in Zones 1 and 2, 21 and 22

## C

The Klippon® POK enclosure range is made from a high-quality glass fibre reinforced polyester and is ideal for applications and environments where corrosion resistance, impact resistance and a high IP protection class is a requirement.

Key Features:

- Manufactured from glass fibre reinforced polyester
- Available in 17 sizes
- Two standard finishes (colours)
  - Grey, similar to RAL 7001 (industrial use)
  - Black, similar to RAL 9011 (harsh environments, Ex)
- Captive lid fixing screws are stainless steel
- Fixing holes are located outside of the lid sealing area to ensure high ingress protection of IP66
- Threaded holes for internal component mounting
- Silicone sealing for extreme temperature environments
- Impact resistance up to 7 Joules
- Approved to the latest international standards, including EN 62208 and IEC EN 60079

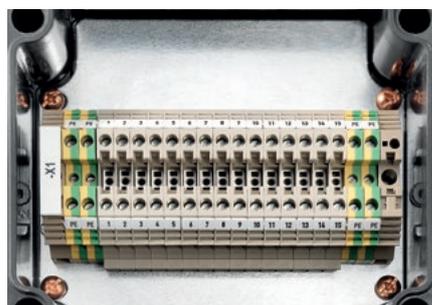
### Cross-head screws

The enclosure lid is secured with stainless steel captive cross-head screws. Handling the enclosure is made simple. A single tool is the only requirement for quick and easy installation.



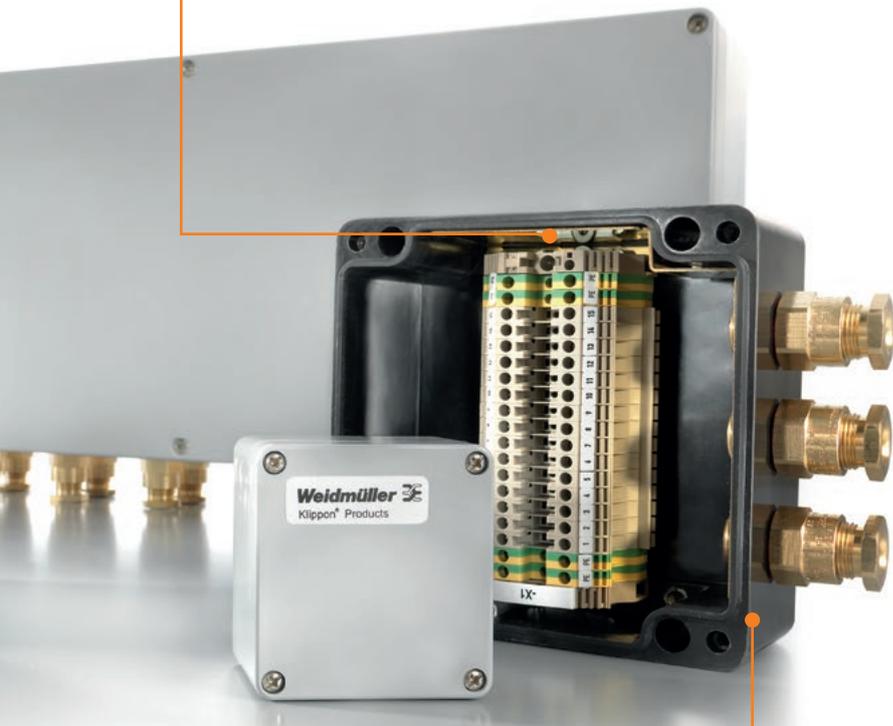
### Mounting plates

Internal mounting plates for the installation of terminal rails, terminal blocks or other equipment are available.



**Brass Earth Continuity Plate**

An angled design made to complement the Klippon® POK enclosures installed in potentially explosive atmospheres. The brass earth continuity plate is available as an optional accessory.



**Earth kit**

The Klippon® POK Ex enclosures are designed for applications installed in potentially explosive atmospheres. An M6 or M10 internal/external earth kit is available as an optional accessory.



**Other Colour**

Grey, similar to RAL7001  
 Black, similar to RAL 9011  
 Other colours are available on request (subject to a minimum order quantity).



**Enclosure wall fixing (direct or via mounting lugs)**

The fixing positions of each enclosure are located outside of the sealing area. The enclosure can be fastened directly via fixing holes found on the rear side of the enclosure or alternatively, it is possible to secure the enclosure from the outside by means of mounting lugs that are separately available.



**Closed moulded sealing**

Robust and secure sealing increases the performance of each enclosure with enhanced ingress protection.

The Klippon® POK enclosures are supplied as standard with a removable and replaceable moulded gasket.

Available in either silicone or chloroprene material and depending upon the enclosure type they are adapted to the contour of each enclosure to ensure ingress performance is maintained.



# Klippon® POK – Polyester enclosures

The Klippon® POK range of polyester enclosures are designed to protect and integrate with general purpose electrical and electronic equipment as well as control components in harsh environments or potentially explosive atmospheres.

Designed to meet the rigorous demands of industrial automation or process control and energy industries and with signal and component protection in mind, the Klippon POK enclosure range is designed to meet the customers' application needs.

Our customer specific assembly service can provide a fully customised enclosure solution, designed to meet the customer requirements.

### Features:

- For use in potentially explosive atmospheres and industrial applications
- Extremely robust with a high impact resistance
- Approved to the latest international standards
- M4 or M6 mounting elements integrated into enclosure body for installation of mounting plates, mounting rails, printed circuit boards etc.

**Note:** The enclosure range Klippon® POK can be assembled with terminals or other approved equipment by our locally available Application-Specific Solutions service. Please ask us for more details.



Use our online catalogue for further information, technical details and a selection of accessories: [www.weidmueller.com/klipponpok](http://www.weidmueller.com/klipponpok)



You can find this product family in our Weidmüller Configurator: [www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

### Overview of enclosures

#### Ordering data

Description	Hight x width x depth in mm	Standard (grey finish)	Ex Enclosures (black finish)	Reference product
Klippon® POK 080806	75 x 80 x 55	1305810000	1306000000	Klippon® POK 1
Klippon® POK 081106	75 x 110 x 56	1305820000	1306010000	Klippon® POK 2
Klippon® POK 081606	75 x 160 x 56	1305830000	1306020000	Klippon® POK 3
Klippon® POK 081906	75 x 190 x 55	1305840000	1306030000	Klippon® POK 31
Klippon® POK 082306	75 x 230 x 56	1305850000	1306040000	Klippon® POK 32
Klippon® POK 121209	120 x 122 x 90	1305870000	1306050000	Klippon® POK 4
Klippon® POK 122209	120 x 220 x 90	1305880000	1306070000	Klippon® POK 5
Klippon® POK 161609	160 x 160 x 90	1305890000	1306080000	Klippon® POK 51
Klippon® POK 162609	160 x 260 x 90	1305900000	1306090000	Klippon® POK 6
Klippon® POK 163609	160 x 360 x 90	1305910000	1306100000	Klippon® POK 7
Klippon® POK 165609	160 x 560 x 90	1305920000	1306110000	Klippon® POK 71
Klippon® POK 252512	250 x 255 x 120	1305930000	1306120000	Klippon® POK 8
Klippon® POK 252516	250 x 255 x 160.5	1305980000	1306170000	Klippon® POK 9
Klippon® POK 254012	250 x 400 x 120	1305940000	1306130000	Klippon® POK 91
Klippon® POK 254016	250 x 400 x 160.5	1305990000	1306180000	Klippon® POK 10
Klippon® POK 256012	250 x 600 x 120	1305950000	1306140000	Klippon® POK 11
Klippon® POK 404012	405 x 400 x 120	1305970000	1306150000	Klippon® POK 12

Hinweis

## Technical Overview

### Technical data

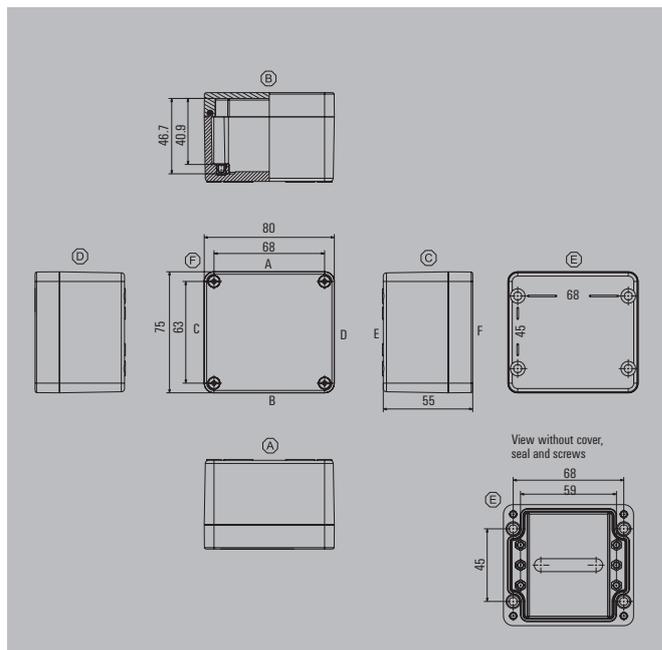
	Ex	Standard
Enclosure material	Glass fibre-reinforced polyester to DIN 16913 with added graphite	Glass fibre-reinforced polyester to DIN 16913
Surface	Black, similar to RAL 9011	Grey, similar to RAL7001
IP Rating	IP 66 to DIN EN 60529	IP 66 to DIN EN 60529
NEMA Rating	4, 4x	4, 4x
Equipment mounting	M4 to M6 threaded bushes	M4 to M6 threaded bushes
Enclosure mounting	4 holes for M4 to M6 screw	4 holes for M4 to M6 screw
Lid fixing	M4/M6 slothead / crosshead screws from stainless steel	M4/M6 slothead / crosshead screws from stainless steel
Impact Resistance	7J to IEC 60079-0	IK08 (5J) to DIN EN 50102
Gasket material	Silicone (VMQ)	Chloroprene
Temperature range	-55 °C...+100 °C	-40 °C...+100 °C
Torque screws of lid M4	2.0 - 2.5 Nm	2.0 - 2.5 Nm
Torque screws of lid M6	2.5 - 3.0 Nm	2.5 - 3.0 Nm
Surface resistance (in ohms)	< 10 <sup>9</sup> Ohm	10 <sup>12</sup> Ohm
Flammability	UL 94 VO, self extinguishing	UL 94 VO, self extinguishing HL 3 acc. to EN 45545-2 on request
Toxicity	Halogen and cadmium-free	
<b>Note</b>		

### Approvals for empty enclosures

	Ex	Standard
ATEX certificate	IBExU13ATEX1003 U	
ATEX marking	⊕ II 2G Ex e IIC Gb or ⊕ II 2G Ex eb IIC ⊕ II 2D Ex tb IIIC Db or ⊕ II 2D Ex tb IIIC	
IECEx certificate	IECEx IBE 13.0003U	
IECEx marking	Ex e IIC Gb or Ex eb IIC Ex tb IIIC Db or Ex tb IIIC	
cULus	E256877	E256877
INMETRO	In preparation	
DNV	TAE00002R2	TAE00002R2
AEx	E223792	
CCCEX	2020322303003288	
<b>Note</b>	Flamability norm EN 45545 on request	

### Approvals terminal enclosures

ATEX certificate	IBExU13ATEX1004 X		
ATEX marking	⊕ II 2G Ex e IIC T6...T5 Gb or ⊕ II 2G Ex eb IIC T6...T5 ⊕ II 1G Ex ia IIC T6...T5 Ga or ⊕ II 1G Ex ia IIC T6...T5 ⊕ II 2(1)G Ex e ia IIC T6...T5 Gb or ⊕ II 2(1)G Ex eb ia IIC T6...T5 ⊕ II 2D Ex tb IIIC T 85 °C...100 °C Db or ⊕ II 2D Ex tb IIIC T 85 °C...100 °C		
IECEx certificate	IECEx IBE 13.0004X		
IECEx marking	Ex e IIC T6...T5 Gb or Ex eb IIC T6...T5 Ex ia IIC T6...T5 Ga or Ex ia IIC T6...T5 Ex e ia IIC T6...T5 Gb or Ex eb ia IIC T6...T5 Ex tb IIIC T 85 °C...100 °C Db or Ex tb IIIC T 85 °C...100 °C		
INMETRO certificate	LMP 21.0021X	AEx certificate	E223792
INMETRO marking	Ex e IIC T6...T5 Gb ou Ex eb IIC T6...T5 Ex ia IIC T6...T5 Ga ou Ex ia IIC T6...T5 Ex e ia IIC T6...T5 Gb ou Ex eb ia IIC T6...T5 Ex tb III C T 85 °C ...100 °C Db ou Ex tb III C T 85 °C...100 °C	AEx marking	Class I, Zone 1, AEx e IIC Gb T6..T4 Class I, Zone 2, AEx e IIC Gc T6..T4 Class I Div.2 Group A,B,C,D T6...T4 Class II Div.2 Group F,G Zone 21, AEx tb IIIC Db
KOSHA certificate	16-AV4B0-246X	CCCEX certificate	2020322303002628
KOSHA marking	Ex e IIC T6...T5 Gb or Ex eb IIC T6...T5 Ex ia IIC T6...T5 Ga or Ex ia IIC T6...T5 Ex e ia IIC T6...T5 Gb or Ex eb ia IIC T6...T5 Ex tb IIIC T 85 °C...100 °C Db or Ex tb IIIC T 85 °C...100 °C	CCCEX marking	Ex e IIC T6...T5 Gb Ex ia IIC T6...T5 Ga Ex e ia IIC T6...T5 Gb Ex tD A21 IP66 T85 °C/100 °C
<b>Note</b>	If you have specific requirements for installations within potentially explosive atmospheres, please contact Weidmüller for a copy of the approval certificates. For details of power dissipation, please contact your Weidmüller representative.		



Height / Width / Depth 75 / 80 / 55 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305810000
RAL 9011	Ex enclosure	Order No.
		1306000000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510570000
Mounting rails, TS15x5	Order No.
Horizontally	8000003889
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1390910000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Note**

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x1*	1x5
4 mm <sup>2</sup>	1x1*	1x4
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position.  
 Order recommendations:  
 TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
 TS 32 mounting rail with clamping yoke technology SAK  
 TS 15 mounting rail with clamping yoke technology AKZ  
 Ordering information for the terminal blocks, please refer to the online catalogue.

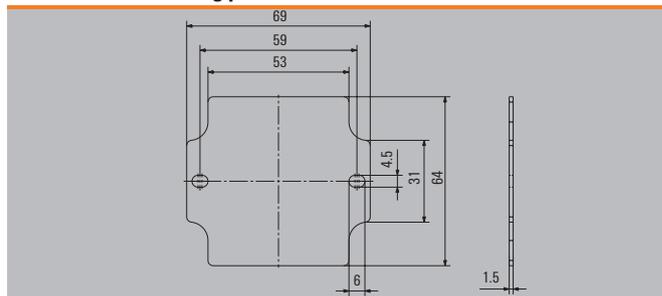
**Guide value for max. number of cable entries**

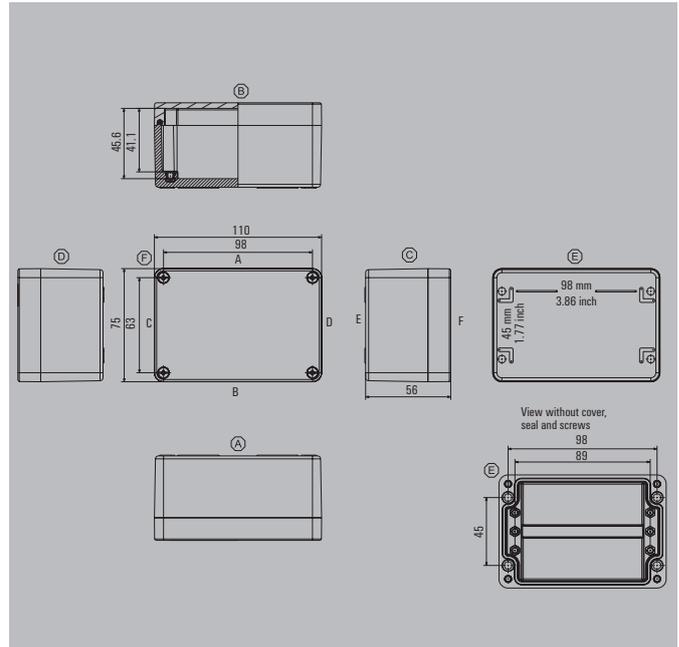
Cable entries	A / B	C / D
M12	4	1
M16	2	1
M20	1	1
M25	1	
M32		
M40		
M50		
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 75 / 110 / 56 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305820000
RAL 9011	Ex enclosure	Order No.
		1306010000
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

<b>Mounting plates</b>	Steel sheet, zinc plated	Order No.	9510580000
<b>Mounting rails, TS15x5</b>	Horizontally	Order No.	8000003890
<b>Fastening screws</b>	Fastening screws for mounting plates	Order No.	0642600000
<b>Brass Earth Continuity Plate</b>	Brass	Order No.	1390920000
<b>Earthing stud</b>	Brass, M10	Order No.	1277220000
	Stainless steel 1.4404, M10	Order No.	1283440000
	Brass, M6	Order No.	1277250000
	Stainless steel 1.4404, M6	Order No.	1283430000
<b>Pressure compensation elements</b>	Polyamide 6, M12	Order No.	1868570000
	Stainless steel 1.4305, M12	Order No.	1868550000
	Stainless steel 1.4404, M20 for Ex applications	Order No.	2519570000

**Note**

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x1*	1x10
4 mm <sup>2</sup>	1x1*	1x9
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position.  
Order recommendations:  
TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
TS 32 mounting rail with clamping yoke technology SAK  
TS 15 mounting rail with clamping yoke technology AKZ  
Ordering information for the terminal blocks, please refer to the online catalogue.

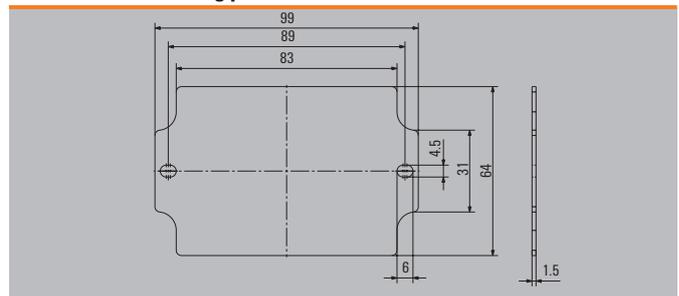
**Guide value for max. number of cable entries**

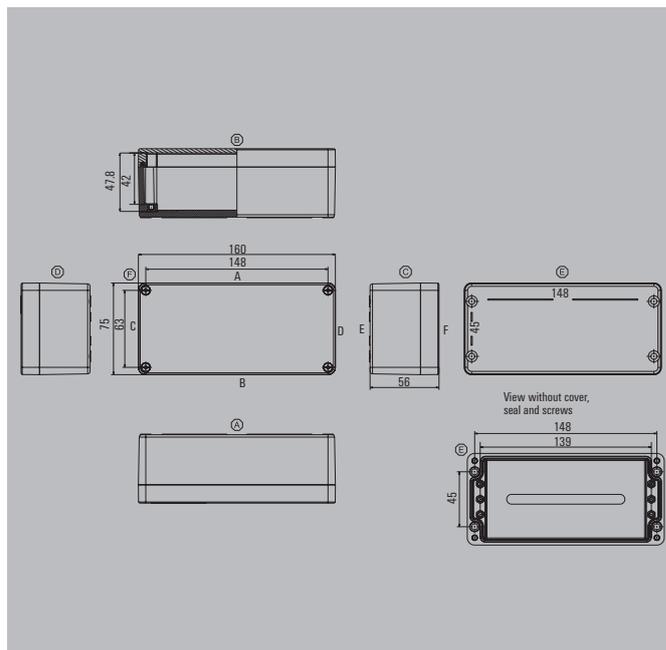
Cable entries	A / B	C / D
M12	7	1
M16	3	1
M20	2	1
M25	2	
M32		
M40		
M50		
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 75 / 160 / 56 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305830000
RAL 9011	Ex enclosure	Order No.
		1306020000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510680000
Mounting rails, TS15x5	Order No.
Horizontally	8000003891
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1390930000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x20
4 mm <sup>2</sup>	*	1x17
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position.  
 Order recommendations:  
 TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
 TS 32 mounting rail with clamping yoke technology SAK  
 TS 15 mounting rail with clamping yoke technology AKZ  
 Ordering information for the terminal blocks, please refer to the online catalogue.

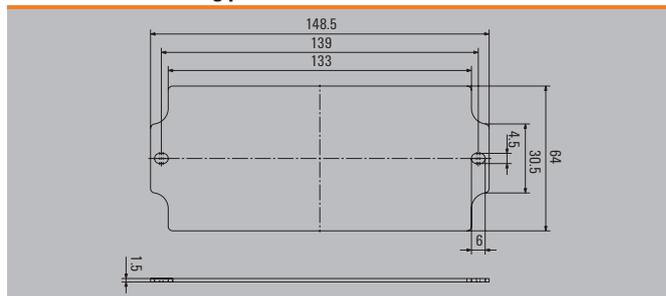
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	11	1
M16	5	1
M20	4	1
M25	3	
M32		
M40		
M50		
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

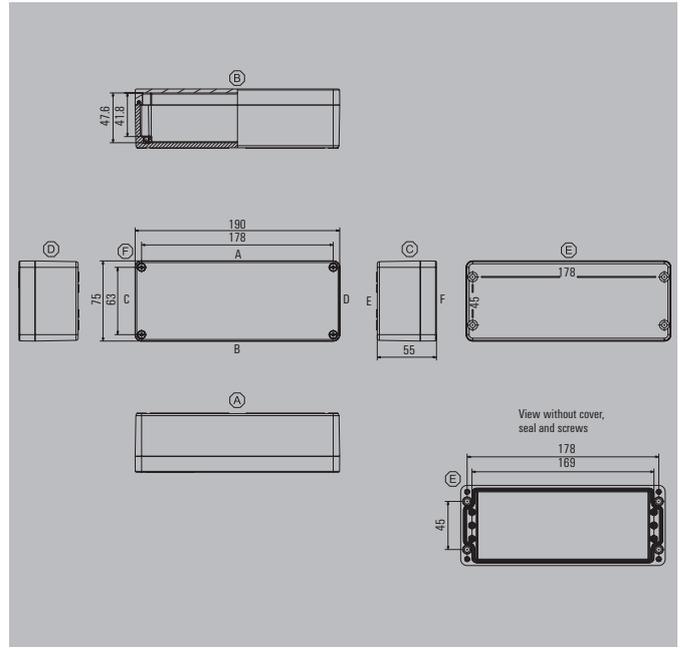
**Dimensions of mounting plate**



**Note**

Klippon® POK 081906

Depth 55 mm



Height / Width / Depth 75 / 190 / 55 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305840000
RAL 9011	Ex enclosure	Order No.
		1306030000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510690000
Mounting rails, TS15x5	Order No.
Horizontally	8000003892
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1390940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x26
4 mm <sup>2</sup>	*	1x22
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note**

\* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position.  
 Order recommendations:  
 TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
 TS 32 mounting rail with clamping yoke technology SAK  
 TS 15 mounting rail with clamping yoke technology AKZ  
 Ordering information for the terminal blocks, please refer to the online catalogue.

**Guide value for max. number of cable entries**

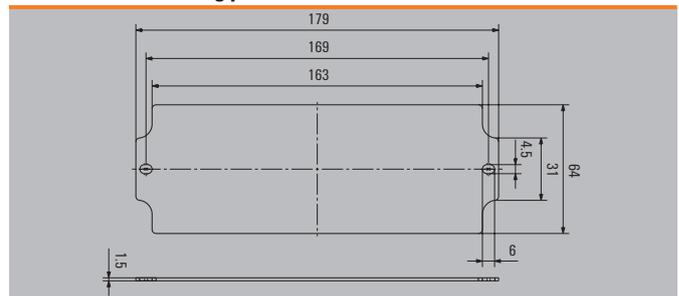
Cable entries	A / B	C / D
M12	14	1
M16	6	1
M20	5	1
M25	4	
M32		
M40		
M50		
M63		



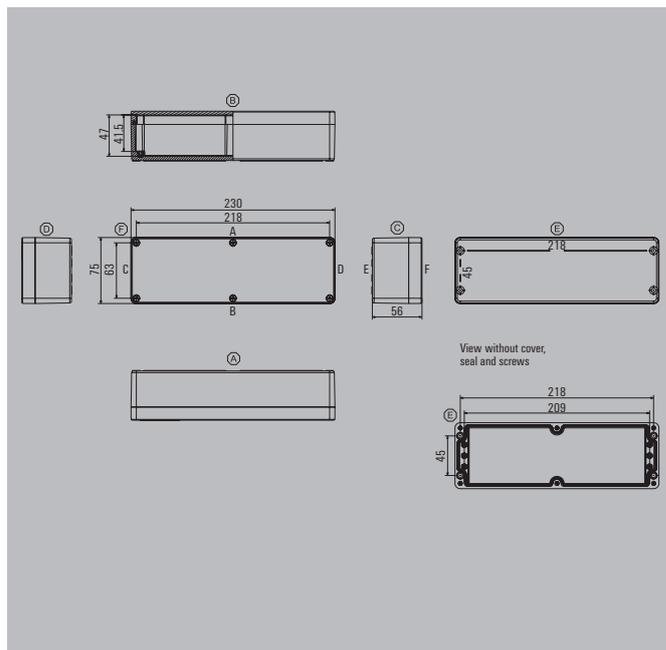
**Note**

\*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 75 / 230 / 56 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305850000
RAL 9011	Ex enclosure	Order No.
		1306040000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	8000170953
Mounting rails, TS15x5	Order No.
Horizontally	8000032382
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1390950000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Note**

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x33
4 mm <sup>2</sup>	*	1x28
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		

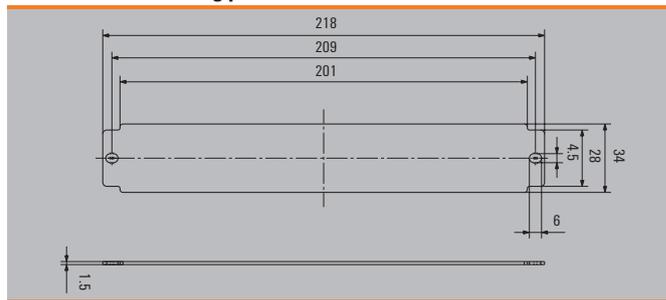
**Note** \* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position.  
 Order recommendations:  
 TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology  
 TS 32 mounting rail with clamping yoke technology SAK  
 TS 15 mounting rail with clamping yoke technology AKZ  
 Ordering information for the terminal blocks, please refer to the online catalogue.

**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	16	1
M16	6	1
M20	6	1
M25	4	
M32		
M40		
M50		
M63		

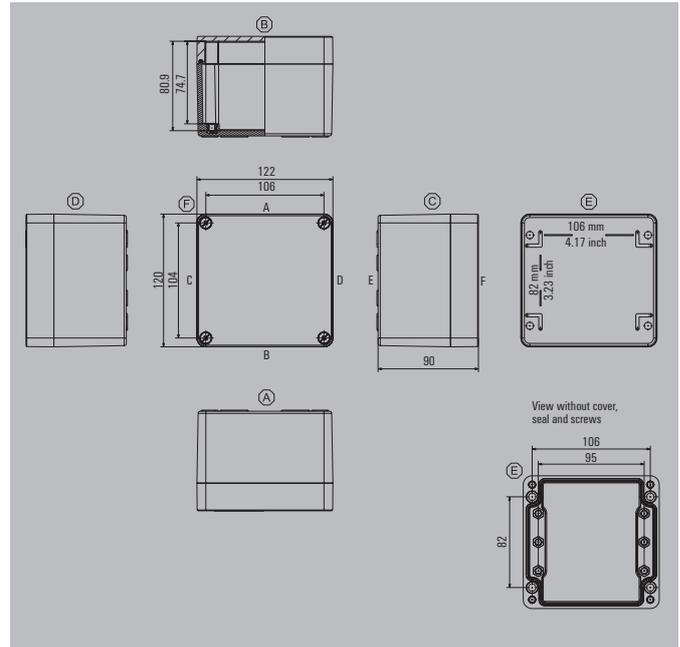
**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



Klippon® POK 121209

Depth **90 mm**



Height / Width / Depth 120 / 122 / 90 mm

**Ordering data**

RAL 7001	Standard	Order No.
		<b>1305870000</b>
RAL 9011	Ex enclosure	Order No.
		<b>1306050000</b>

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	<b>9510590000</b>
Mounting rails, TS15x5	Order No.
Horizontally	<b>8000003890</b>
Fastening screws	Order No.
Fastening screws for mounting plates	<b>0642600000</b>
Brass Earth Continuity Plate	Order No.
Brass	<b>1390970000</b>
Earthing stud	Order No.
Brass, M10	<b>1277220000</b>
Stainless steel 1.4404, M10	<b>1283440000</b>
Brass, M6	<b>1277250000</b>
Stainless steel 1.4404, M6	<b>1283430000</b>
Pressure compensation elements	Order No.
Polyamide 6, M12	<b>1868570000</b>
Stainless steel 1.4305, M12	<b>1868550000</b>
Stainless steel 1.4404, M20 for Ex applications	<b>2519570000</b>

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x12
4 mm <sup>2</sup>	*	1x10
6 mm <sup>2</sup>		1x7
10 mm <sup>2</sup>		1x6
16 mm <sup>2</sup>		1x5

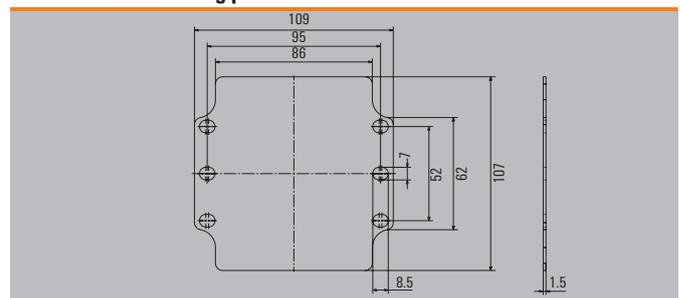
**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal block ZDU or PUSH IN technology A2C TS 32 Mounting rail with clamping yoke technology SAK TS 15 Mounting rail with clamping yoke technology AKZ Order information for rail-mounted terminal blocks, please refer to the online catalogue \*There are no specified mounting options available for vertical mounting in the enclosure.

**Guide value for max. number of cable entries**

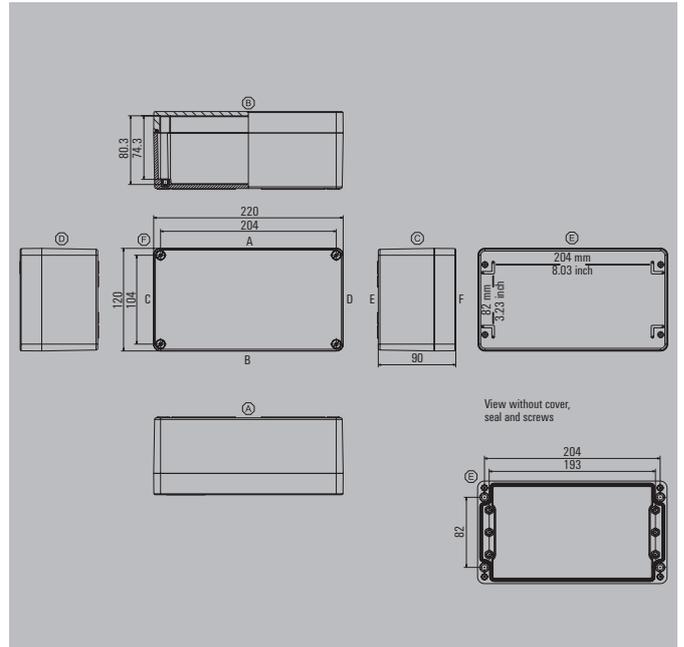
Cable entries	A / B	C / D
M12	12	8
M16	6	4
M20	4	3
M25	2	1
M32	1	1
M40		
M50		
M63		

**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 120 / 220 / 90 mm

**Ordering data**

RAL 7001	Standard	Order No.
		<b>1305880000</b>
RAL 9011	Ex enclosure	Order No.
		<b>1306070000</b>
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	<b>9510600000</b>
Mounting rails, TS35x7.5	Order No.
Horizontally	<b>8000037568</b>
Fastening screws	Order No.
Fastening screws for mounting plates	<b>0642600000</b>
Brass Earth Continuity Plate	Order No.
Brass	<b>1390980000</b>
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	<b>3169940000</b>
Earthing stud	Order No.
Brass, M10	<b>1277220000</b>
Stainless steel 1.4404, M10	<b>1283440000</b>
Brass, M6	<b>1277250000</b>
Stainless steel 1.4404, M6	<b>1283430000</b>
Pressure compensation elements	Order No.
Polyamide 6, M12	<b>1868570000</b>
Stainless steel 1.4305, M12	<b>1868550000</b>
Stainless steel 1.4404, M20 for Ex applications	<b>2519570000</b>

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x31
4 mm <sup>2</sup>	*	1x26
6 mm <sup>2</sup>		1x19
10 mm <sup>2</sup>		1x15
16 mm <sup>2</sup>		1x13



**Note**  
 The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.  
 Recommendations for ordering:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 Order information for rail-mounted terminal blocks, please refer to the online catalogue  
 \*There are no specified mounting options available for vertical mounting in the enclosure.

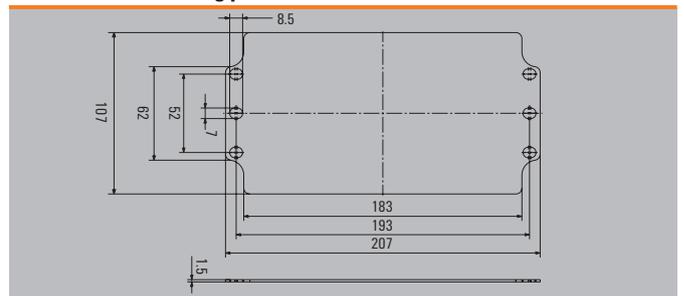
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	24	8
M16	14	4
M20	12	3
M25	5	1
M32	4	1
M40	3	
M50		
M63		

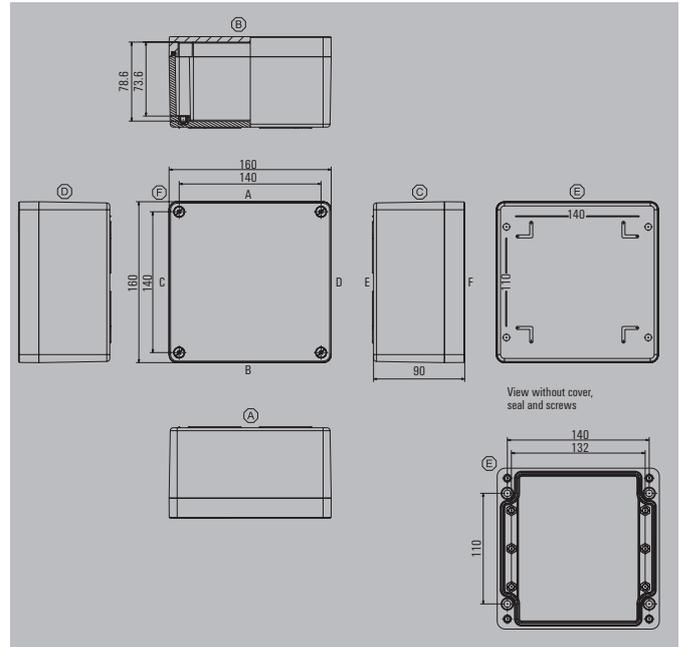


**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth	160 / 160 / 90 mm
------------------------	-------------------

**Ordering data**

RAL 7001	Standard	Order No.	1305890000
RAL 9011	Ex enclosure	Order No.	1306080000
<b>Note</b> The overview page lists the ambient temperatures.			

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510610000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003908
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1390990000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x17
4 mm <sup>2</sup>	*	1x14
6 mm <sup>2</sup>		1x11
10 mm <sup>2</sup>		1x9
16 mm <sup>2</sup>		1x7



**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

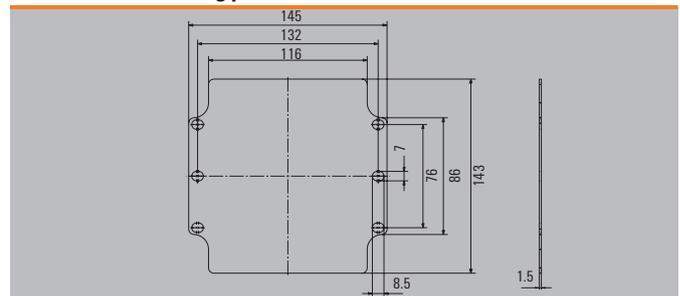
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	15	11
M16	12	6
M20	6	4
M25	3	2
M32	2	2
M40	2	1
M50		
M63		

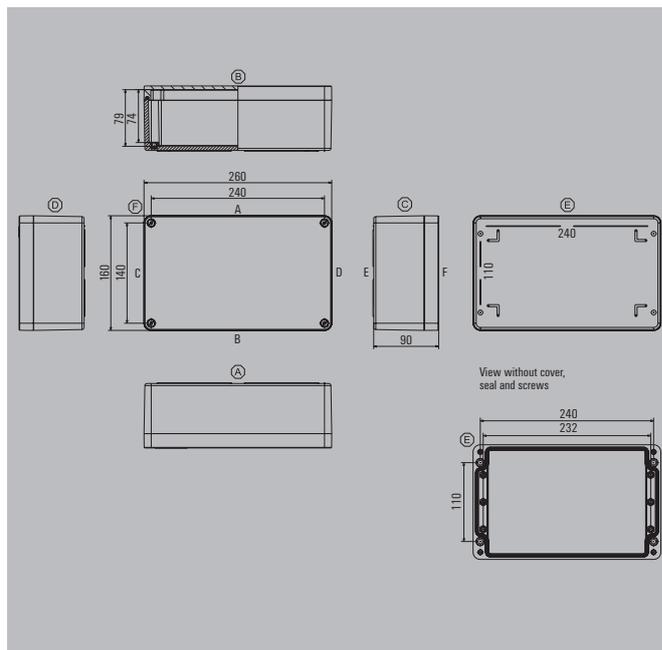


**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 160 / 260 / 90 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305900000
RAL 9011	Ex enclosure	Order No.
		1306090000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510620000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003909
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1391000000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x36
4 mm <sup>2</sup>	*	1x30
6 mm <sup>2</sup>		1x23
10 mm <sup>2</sup>		1x16
16 mm <sup>2</sup>		1x16



**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

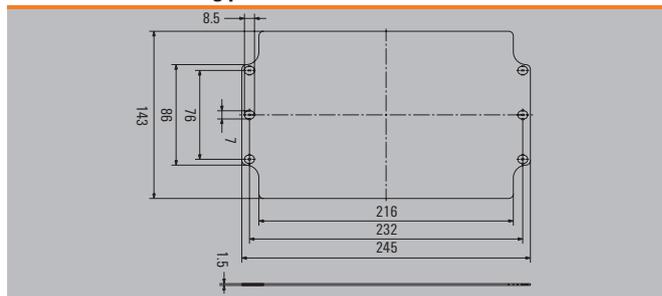
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	30	11
M16	24	6
M20	14	4
M25	5	2
M32	4	2
M40	3	1
M50		
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

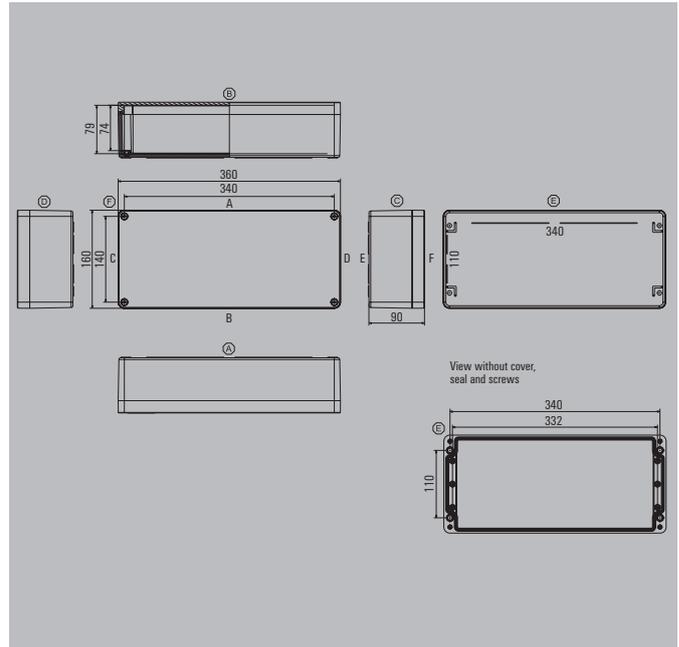
**Dimensions of mounting plate**



**Note**

Klippon® POK 163609

Depth 90 mm



Height / Width / Depth 160 / 360 / 90 mm

**Ordering data**

RAL 7001	Standard	Order No.
		<b>1305910000</b>
RAL 9011	Ex enclosure	Order No.
		<b>1306100000</b>

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	<b>9510630000</b>
Mounting rails, TS35x7.5	Order No.
Horizontally	<b>8000003910</b>
Fastening screws	Order No.
Fastening screws for mounting plates	<b>0642600000</b>
Brass Earth Continuity Plate	Order No.
Brass	<b>1391010000</b>
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	<b>3169940000</b>
Earthing stud	Order No.
Brass, M10	<b>1277220000</b>
Stainless steel 1.4404, M10	<b>1283440000</b>
Brass, M6	<b>1277250000</b>
Stainless steel 1.4404, M6	<b>1283430000</b>
Pressure compensation elements	Order No.
Polyamide 6, M12	<b>1868570000</b>
Stainless steel 1.4305, M12	<b>1868550000</b>
Stainless steel 1.4404, M20 for Ex applications	<b>2519570000</b>

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x56
4 mm <sup>2</sup>	*	1x47
6 mm <sup>2</sup>		1x36
10 mm <sup>2</sup>		1x29
16 mm <sup>2</sup>		1x24



**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

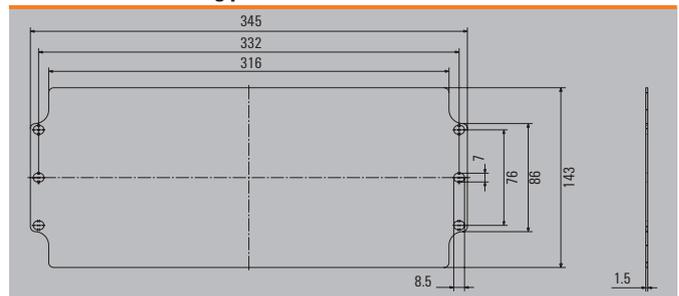
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	45	11
M16	36	6
M20	20	4
M25	8	2
M32	6	2
M40	5	1
M50		
M63		

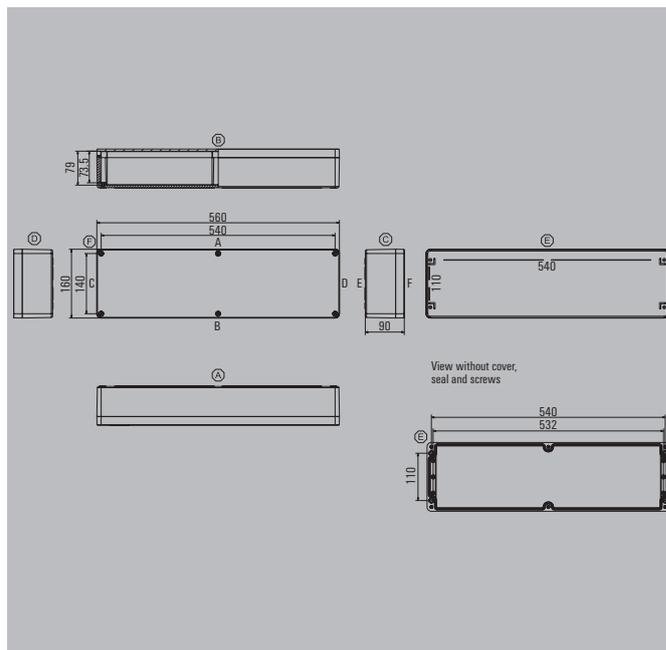


**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 160 / 560 / 90 mm

**Ordering data**

RAL 7001	Standard	Order No.
		<b>1305920000</b>
RAL 9011	Ex enclosure	Order No.
		<b>1306110000</b>

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	<b>9510710000</b>
Mounting rails, TS35x7.5	Order No.
Horizontally	<b>8000003911</b>
Fastening screws	Order No.
Fastening screws for mounting plates	<b>0642600000</b>
Brass Earth Continuity Plate	Order No.
Brass	<b>1391020000</b>
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	<b>3169940000</b>
Earthing stud	Order No.
Brass, M10	<b>1277220000</b>
Stainless steel 1.4404, M10	<b>1283440000</b>
Brass, M6	<b>1277250000</b>
Stainless steel 1.4404, M6	<b>1283430000</b>
Pressure compensation elements	Order No.
Polyamide 6, M12	<b>1868570000</b>
Stainless steel 1.4305, M12	<b>1868550000</b>
Stainless steel 1.4404, M20 for Ex applications	<b>2519570000</b>

**Note**

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x94
4 mm <sup>2</sup>	*	1x79
6 mm <sup>2</sup>		1x60
10 mm <sup>2</sup>		1x49
16 mm <sup>2</sup>		1x41



**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

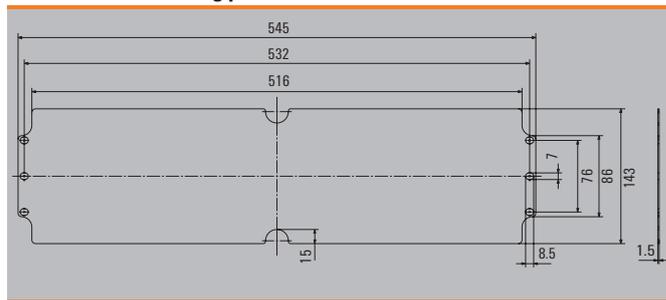
**Guide value for max. number of cable entries**

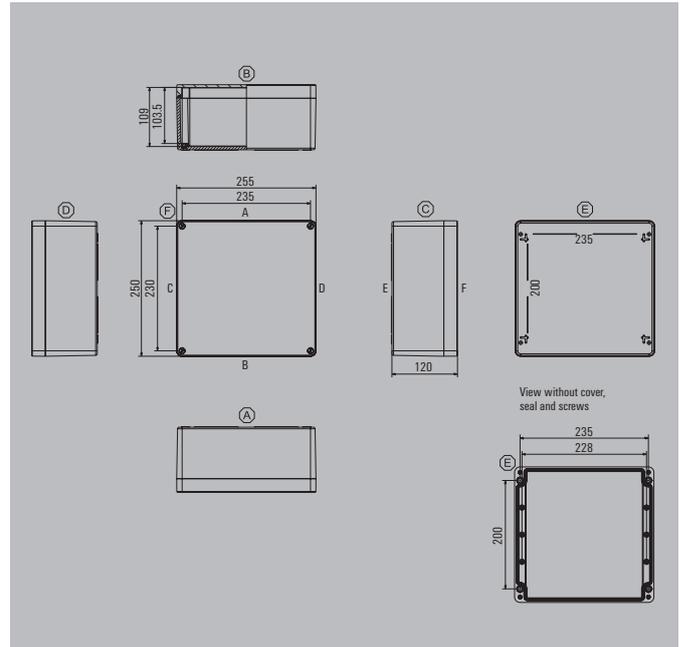
Cable entries	A / B	C / D
M12	66	11
M16	58	6
M20	32	4
M25	12	2
M32	10	2
M40	8	1
M50		
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





Height / Width / Depth 250 / 255 / 120 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305930000
RAL 9011	Ex enclosure	Order No.
		1306120000

**Note** The overview page lists the ambient temperatures.

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510640000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003912
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1391030000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x38
4 mm <sup>2</sup>	*	2x31
6 mm <sup>2</sup>		2x23
10 mm <sup>2</sup>		2x19
16 mm <sup>2</sup>		2x15



**Note** The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

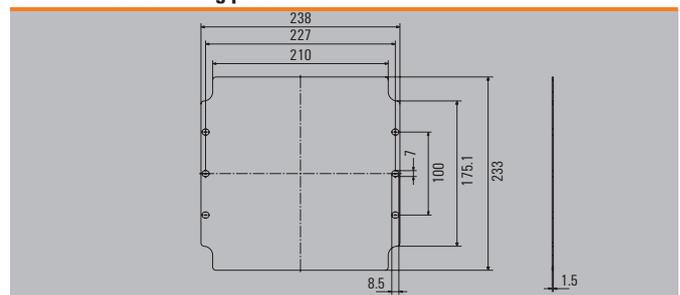
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	36	32
M16	32	21
M20	10	15
M25	10	8
M32	8	3
M40	3	3
M50	2	2
M63		

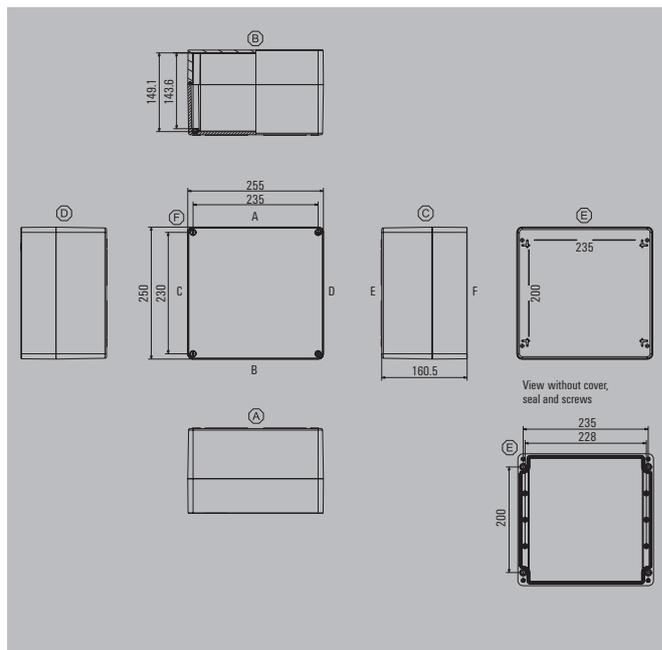


**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 250 / 255 / 160.5 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305980000
RAL 9011	Ex enclosure	Order No.
		1306170000
Note	The overview page lists the ambient temperatures.	

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510640000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003912
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1391030000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x38
4 mm <sup>2</sup>	*	2x31
6 mm <sup>2</sup>		2x23
10 mm <sup>2</sup>		2x19
16 mm <sup>2</sup>		2x15



**Note**  
 The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.  
 Recommendations for ordering:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 Order information for rail-mounted terminal blocks, please refer to the online catalogue  
 \*There are no specified mounting options available for vertical mounting in the enclosure.

**Guide value for max. number of cable entries**

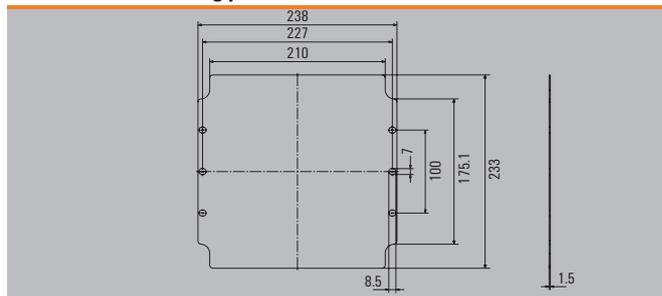
Cable entries	A / B	C / D
M12	36	32
M16	32	21
M20	18	15
M25	10	8
M32	8	3
M40	3	3
M50	2	2
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

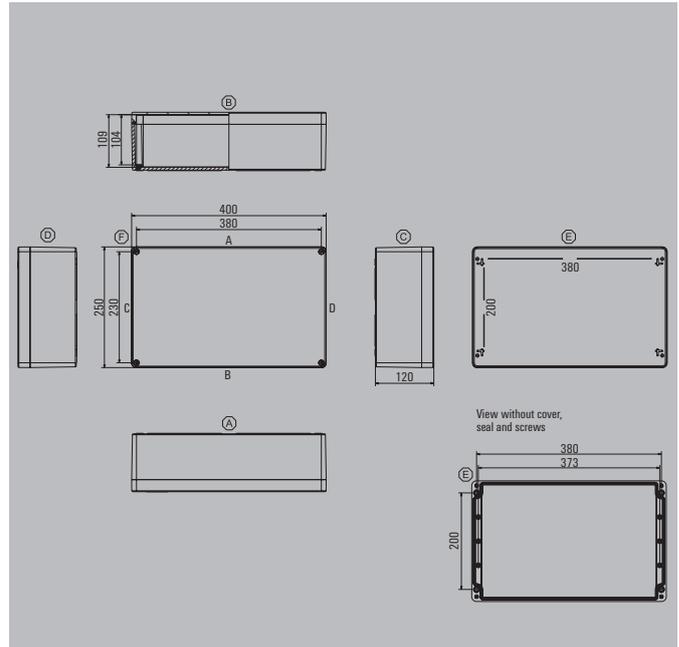
Note

**Dimensions of mounting plate**



Klippon® POK 254012

Depth 120 mm



Height / Width / Depth 250 / 400 / 120 mm

**Ordering data**

<b>RAL 7001</b>	Standard	Order No. <b>1305940000</b>
<b>RAL 9011</b>	Ex enclosure	Order No. <b>1306130000</b>
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

<b>Mounting plates</b>	Steel sheet, zinc plated	Order No. <b>9510650000</b>
<b>Mounting rails, TS35x7.5</b>	Horizontally	Order No. <b>8000003913</b>
<b>Fastening screws</b>	Fastening screws for mounting plates	Order No. <b>0642600000</b>
<b>Brass Earth Continuity Plate</b>	Brass	Order No. <b>1391040000</b>
<b>External mounting feet, set of 4</b>	Stainless steel 1.4301, natural	Order No. <b>3169940000</b>
<b>Earthing stud</b>	Brass, M10	Order No. <b>1277220000</b>
	Stainless steel 1.4404, M10	Order No. <b>1283440000</b>
	Brass, M6	Order No. <b>1277250000</b>
	Stainless steel 1.4404, M6	Order No. <b>1283430000</b>
<b>Pressure compensation elements</b>	Polyamide 6, M12	Order No. <b>1868570000</b>
	Stainless steel 1.4305, M12	Order No. <b>1868550000</b>
	Stainless steel 1.4404, M20 for Ex applications	Order No. <b>2519570000</b>

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup> *	2x67
	4 mm <sup>2</sup> *	2x55
	6 mm <sup>2</sup>	2x41
	10 mm <sup>2</sup>	2x33
	16 mm <sup>2</sup>	2x27

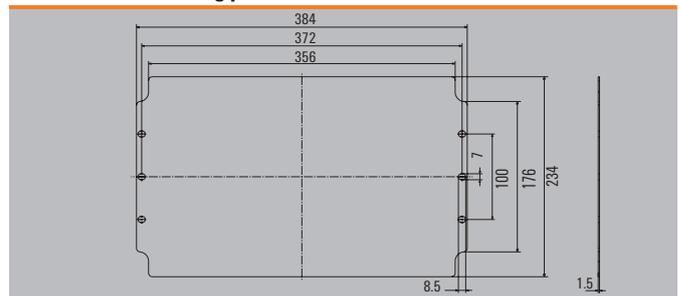
**Note**  
The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.  
Recommendations for ordering:  
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
Order information for rail-mounted terminal blocks, please refer to the online catalogue  
\*There are no specified mounting options available for vertical mounting in the enclosure.

**Guide value for max. number of cable entries**

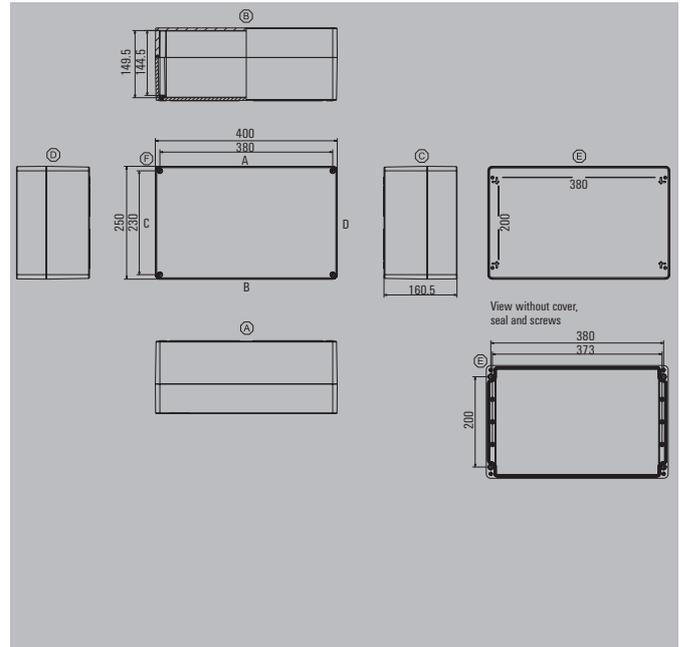
Cable entries	A / B	C / D
	M12	62
	M16	54
	M20	33
	M25	18
	M32	14
	M40	6
	M50	4
	M63	2

**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



Height / Width / Depth 250 / 400 / 160.5 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305990000
RAL 9011	Ex enclosure	Order No.
		1306180000
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510650000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003913
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1391040000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x67
4 mm <sup>2</sup>	*	2x55
6 mm <sup>2</sup>		2x41
10 mm <sup>2</sup>		2x33
16 mm <sup>2</sup>		2x27



**Note**  
 The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.  
 Recommendations for ordering:  
 TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC  
 Order information for rail-mounted terminal blocks, please refer to the online catalogue  
 \*There are no specified mounting options available for vertical mounting in the enclosure.

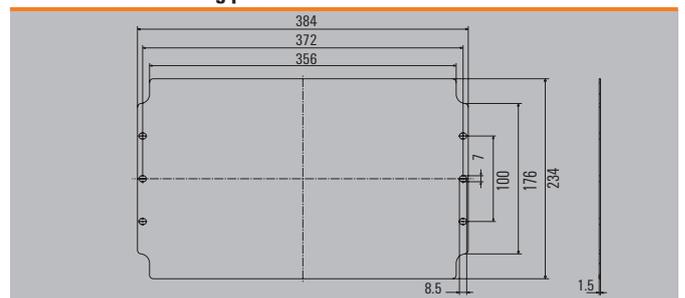
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	62	32
M16	54	21
M20	33	15
M25	18	8
M32	14	3
M40	6	3
M50	4	2
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

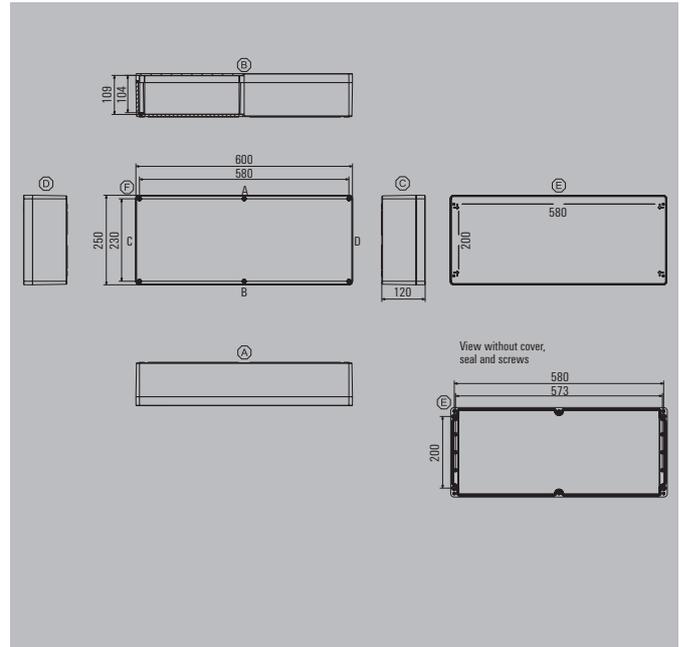
**Dimensions of mounting plate**



**Note**

Klippon® POK 256012

Depth 120 mm



Height / Width / Depth 250 / 600 / 120 mm

**Ordering data**

RAL 7001	Standard	Order No.
		1305950000
RAL 9011	Ex enclosure	Order No.
		1306140000
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

Mounting plates	Order No.
Steel sheet, zinc plated	9510660000
Mounting rails, TS35x7.5	Order No.
Horizontally	8000003914
Fastening screws	Order No.
Fastening screws for mounting plates	0642600000
Brass Earth Continuity Plate	Order No.
Brass	1391050000
External mounting feet, set of 4	Order No.
Stainless steel 1.4301, natural	3169940000
Earthing stud	Order No.
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	Order No.
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x107
4 mm <sup>2</sup>	*	2x89
6 mm <sup>2</sup>		2x66
10 mm <sup>2</sup>		2x53
16 mm <sup>2</sup>		2x44



**Note**  
 The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

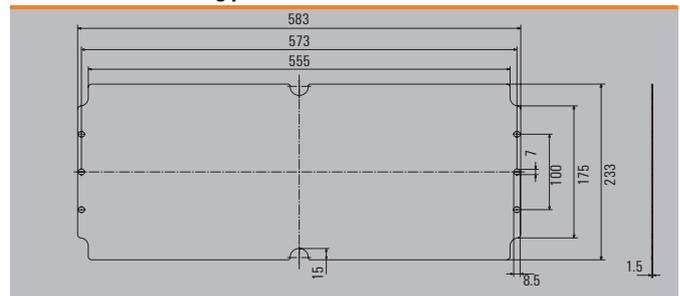
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	96	32
M16	80	21
M20	24	15
M25	20	8
M32	20	3
M40	8	3
M50	6	2
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**



**Note**



405 / 400 / 120 mm

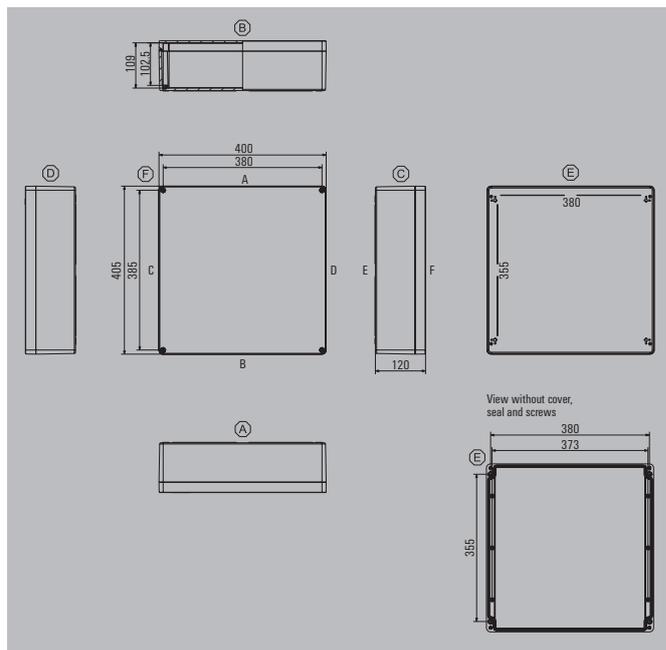
**Ordering data**

<b>RAL 7001</b>	Standard	<b>Order No.</b> 1305970000
<b>RAL 9011</b>	Ex enclosure	<b>1306150000</b>
<b>Note</b>	The overview page lists the ambient temperatures.	

**Accessories**

<b>Mounting plates</b>	Steel sheet, zinc plated	<b>Order No.</b> 9510670000
<b>Mounting rails, TS35x7.5</b>	Horizontally	<b>800003913</b>
<b>Fastening screws</b>	Fastening screws for mounting plates	<b>0642600000</b>
<b>Brass Earth Continuity Plate</b>	Brass	<b>1391070000</b>
<b>External mounting feet, set of 4</b>	Stainless steel 1.4301, natural	<b>3169940000</b>
<b>Earthing stud</b>	Brass, M10	<b>1277220000</b>
	Stainless steel 1.4404, M10	<b>1283440000</b>
	Brass, M6	<b>1277250000</b>
	Stainless steel 1.4404, M6	<b>1283430000</b>
<b>Pressure compensation elements</b>	Polyamide 6, M12	<b>1868570000</b>
	Stainless steel 1.4305, M12	<b>1868550000</b>
	Stainless steel 1.4404, M20 for Ex applications	<b>2519570000</b>

Note



**Guide value for max. number of terminals (industry)**

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	3x67
4 mm <sup>2</sup>	*	3x55
6 mm <sup>2</sup>		3x41
10 mm <sup>2</sup>		3x33
16 mm <sup>2</sup>		3x27



**Note**  
The assembly with terminal rails is designed for direct mounting. The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Recommendations for ordering: TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC. Order information for rail-mounted terminal blocks, please refer to the online catalogue. \*There are no specified mounting options available for vertical mounting in the enclosure.

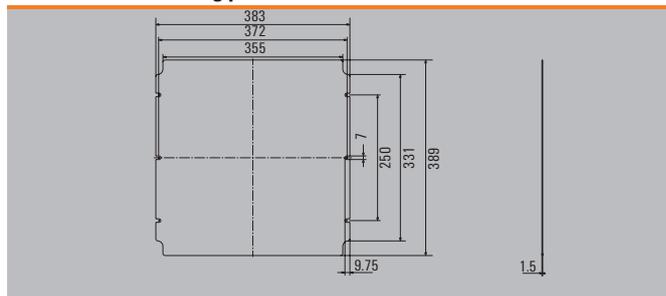
**Guide value for max. number of cable entries**

Cable entries	A / B	C / D
M12	62	60
M16	54	39
M20	33	30
M25	18	18
M32	14	7
M40	6	5
M50	4	4
M63		



**Note** \*\* Our IP 68 plastic cable glands are used as the reference for these guideline values.

**Dimensions of mounting plate**





## TBF – Large polyester enclosures

The enclosures in the TBF range are made from sturdy glass-fibre reinforced polyester. They offer a universal solution for protection of components such as controllers, measuring instruments, valves and other devices. Suitable applications include photovoltaics and energy distribution.

Key features of this product range include:

- Available in 9 sizes, with grey or transparent lids
- The lid has nylon screws fitted
- Mounting holes are outside the sealed area
- Thread for fitting to terminal rails and mounting plates
- High Ingress Protection (IP 66 and IP 67)

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/tbf](http://www.weidmueller.com/tbf)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

### Overview of enclosures

#### Ordering data

Description	Dimensions in mm	Lid color	
		Grey lid	Transparent lid
TBF 19/15	186 x 151 x 140	0360100000	
TBF 30/19	302 x 186 x 175	0360200000	0500600000
TBF 30/30	302 x 302 x 175	0360300000	0500700000
TBF 37/30	372 x 302 x 175	0360400000	0500800000
TBF 49/30	488 x 302 x 175 / 210	9502800000	9502840000
TBF 56/30	558 x 302 x 175 / 210	9502810000	9502850000
TBF 60/30	603 x 302 x 175 / 210	0360500000	0500900000
TBF 60/37	603 x 372 x 175 / 210	9502820000	9502860000
TBF 60/60	603 x 603 x 175 / 210	9502830000	9502870000

Note

## Technical Overview

### Features

- Extremely tough and impact resistant thanks to the glass-fibre reinforced polyester
- Extremely weather resistant
- High IP rating
- Approved according to the latest international standards

**Note** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

### Technical data

	Grey lid	Transparent lid
Enclosure material	Base and lid made of glass-fibre reinforced polyester (GRP)	Base made of glass-fibre reinforced polyester (GRP) Lid is polycarbonate (PC)
Surface finish	grey, similar to RAL 7035	
IP protection class	IP66 and IP67	IP 66
Installation mounting	4 or 6 M4 clamping screws	4 or 6 M4 clamping screws
Enclosure mounting	4 holes of 7 mm diameter or with external fastening lugs, see accessories	4 holes of 7 mm diameter or with external fastening lugs, see accessories
Lid fixing	4, 6 or 8 captive cross-headed nylon screws	4, 6 or 8 captive cross-headed nylon screws
Impact resistance	IK08 to IEC 62208 IK10 to EN/IEC 62262	IK08 to IEC 62208 IK10 to EN/IEC 62262
Gasket material	Polyurethane	Polyurethane
Temperature range	-50 °C...+130 °C (permanent temperature max. 70°C)	-35 °C...+120 °C (permanent temperature max. 70°C)
Flammability characteristics	UL 94 HB	V2
Toxicity	Free from halogens	Free from halogens
<b>Note</b>	For details of power dissipation, please contact your Weidmüller representative.	



#### Mounting plates

Suitable mounting plates are available for attaching mounting rails, terminal blocks or other devices.



#### Impact resistance

Robust enclosures thanks to glass fiber reinforced polyester.



#### High IP-Protection

The sealing ensures a reliable IP protection class of IP66 for enclosures with a transparent cover and an additional IP67 for enclosures with a grey cover.



#### Assembly and processing

Cut-outs, drillings, cable glands or equipped terminal rails can be realized as required. Individual processing and assembly possible using the Weidmüller configurator.

## MPC – Small polycarbonate enclosures

The polycarbonate enclosures of the MPC range are ideal for enclosing electrical, electro-mechanical and pneumatic devices as well as PCBs. The enclosures are used in situations with extreme mechanical and chemical conditions.

The characteristics of the enclosures are:

- Available in 17 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/mpc](http://www.weidmueller.com/mpc)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

### Overview of enclosures

#### Ordering data

Description	Dimensions in mm	Grey lid	Transparent lid
MPC 07/12/07	75 x 125 x 75	9535170000	9535180000
MPC 07/12/10	75 x 125 x 100	9535190000	9535200000
MPC 07/12/12	75 x 125 x 125	9535210000	9535220000
MPC 12/12/07	125 x 125 x 75	9535230000	9535240000
MPC 12/12/10	125 x 125 x 100	9535250000	9535260000
MPC 12/12/12	125 x 125 x 125	9535270000	9535280000
MPC 12/17/07	125 x 175 x 75	9535290000	9535300000
MPC 12/17/10	125 x 175 x 100	9535310000	9535320000
MPC 12/17/12	125 x 175 x 125	9535330000	9535340000
MPC 12/17/15	125 x 175 x 150	9535350000	9535360000
MPC 17/17/07	175 x 175 x 75	9535370000	9535380000
MPC 17/17/10	175 x 175 x 100	9535390000	9535400000
MPC 17/17/12	175 x 175 x 125	9535410000	
MPC 17/17/15	175 x 175 x 150	9535430000	9535440000
MPC 17/25/07	175 x 250 x 75	9535450000	
MPC 17/25/10	175 x 250 x 100	9535470000	9535480000
MPC 17/25/15	175 x 250 x 150	9535490000	9535500000

Note

## Technical Overview

### Features

- High thermal stability thanks to the polycarbonate
- Extremely tough and impact resistant thanks to the high fibre-glass content.
- Good IP rating, due to use of polyurethane (PUR) gasket material
- Approved according to the latest international standards

**Note** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

### Technical data

	Grey lid	Transparent lid
Enclosure material	Base and lid made of glass-fibre reinforced polycarbonate	Base made of glass-fibre reinforced polycarbonate, ABS lid
Cover	Grey	Transparent
Surface finish	Grey, similar to RAL 7035	Grey, similar to RAL 7035
IP protection class	IP 66, IP 67	IP 66, IP 67
Installation mounting	Self-tapping screws	Self-tapping screws
Enclosure mounting	4 holes (4.5 mm diameter) or external mounting brackets (optional)	4 holes (4.5 mm diameter) or external mounting brackets (optional)
Lid fixing	4 cross-head screws (polyamide)	4 cross-head screws (polyamide)
Gasket material	Polyurethane foam	Polyurethane foam
Temperature range	-50 °C...+100 °C	-40 °C...+60 °C
Impact resistance	IK 08 in accordance with EN 60529	IK 08 in accordance with EN 60529
<b>Note</b>	For details of power dissipation, please contact your Weidmüller representative.	



#### Mounting plates

Suitable mounting plates are available for attaching mounting rails, terminal blocks or other devices.



#### Cross-head screws

Fastening the enclosure cover with cross-head screws. Quick and easy installation with just one tool.



#### High IP-Protection

The sealing ensures a reliable IP protection class of IP66/IP67.



#### Assembly and processing

Cut-outs, drillings, cable glands or equipped terminal rails can be realized as required. Individual processing and assembly possible using the Weidmüller Configurator (WMC).

## FPC – Medium-sized polycarbonate enclosures

The FPC enclosure range is the next generation of the MPC range. The enclosures have the same technical characteristics and are ideal for enclosing electrical, electro-mechanical and pneumatic devices and PCBs. The enclosures are used in situations where extreme mechanical and chemical conditions exist.

The characteristics of the enclosures are:

- Available in 6 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/fpc](http://www.weidmueller.com/fpc)



You can find this product family in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

### Overview of enclosures

#### Ordering data

Description	Dimensions in mm	Grey lid	Transparent lid
FPC 20/20/13	200 x 200 x 132	9535690000	9535680000
FPC 20/30/13	200 x 300 x 132	9535710000	9535700000
FPC 20/40/13	200 x 400 x 132	9535730000	9535720000
FPC 30/30/13	300 x 300 x 132	9535750000	9535740000
FPC 30/40/13	300 x 400 x 132	9535770000	9535760000
FPC 40/60/13	400 x 600 x 132	9535810000	9535820000

#### Note

#### Technical data

	Grey lid	Transparent lid
Enclosure material	Base and lid made of glass-fibre reinforced polycarbonate	Base made of glass-fibre reinforced polycarbonate, ABS lid
Cover	Grey	Transparent
Surface finish	Grey, similar to RAL 7035	Grey, similar to RAL 7035
IP protection class	IP 66, IP 67	IP 66, IP 67
Installation mounting	Self-tapping screws	Self-tapping screws
Enclosure mounting	4 holes (7.5 mm diameter) or external mounting brackets (optional)	4 holes (7.5 mm diameter) or external mounting brackets (optional)
Lid fixing	4 or 6 cross-head screws (polyamide)	4 or 6 cross-head screws (polyamide)
Gasket material	Polyurethane foam	Polyurethane foam
Temperature range	-50 °C...+100 °C	-40 °C...+60 °C
Impact resistance	IK 08 in accordance with EN 60529	IK 08 in accordance with EN 60529

#### Note

For details of power dissipation, please contact your Weidmüller representative.



Universal use in industrial applications indoors and outdoors



**Cross-head screws**

Fastening the enclosure cover with cross-head screws. Quick and easy installation with just one tool.



**High IP protection**

The sealing ensures a reliable IP protection rating of IP66/IP67.



**Assembly and processing**

Cut-outs, drillings, cable glands or equipped terminal rails can be realized as required. Individual processing and assembly possible using the Weidmüller Configurator (WMC).



**Mounting plates**

Suitable mounting plates for attaching mounting rails, terminal blocks or other devices.



# Enclosure solutions for railway applications

<b>Enclosure solutions for railway applications</b>	Introduction	D.2
	Klippon® Railway	D.4
	Klippon® Fire Rated Box - Klippon® STB	D.20
	Klippon® Fire Rated Box - Klippon® POK	D.26

# Create real added value for railway applications

## Klippon® Protect enclosure solutions for trains, track systems, and signalling equipment

In critical applications such as the railway industry, safety and reliability play a decisive role. With Klippon® Protect, we as experts in the transmission of power, signals and data in railway environments offer optimal enclosure solutions for state-of-the-art systems for railway engineering. We work closely with our customers to optimise their distribution of power, signals and data, to promote their digital transformation or to support them in the development of new business models.

### Customised development at the highest level

Our team of experts work with you to develop customised solutions that meet the high demands of the railway industry. We are on hand to assist you in everything from application consulting to solution-oriented development and certification to IRIS-qualified project management. This makes Weidmüller your competent partner for solutions in demanding railway applications.

### Your special advantage:

- Vibration and shock-resistant components
- Compliance with all relevant railway standards
- IRIS-certified project management
- Solution-oriented development with a professional project team



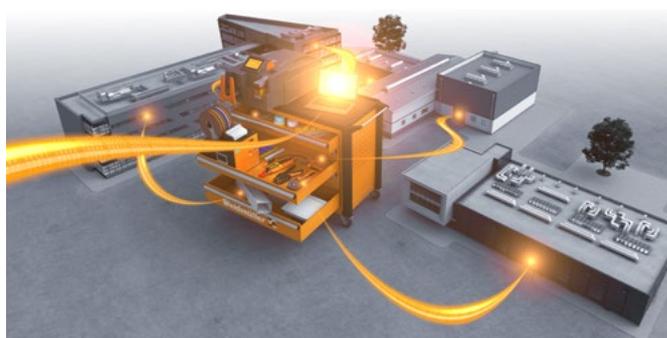
**Digital transformation**  
IoT for railway applications



**Secure electrical interfaces**  
Customised solutions for trains and routes



**Flexible power distribution**  
Efficient solutions for railway vehicles



**Workplace solutions**  
Optimised processes in panel building



Created with AI

D



### Customised solutions for power distribution

We develop customer-specific solutions based on our extensive portfolio. These include the robust Klippon® enclosure and the tried-and-tested terminals of the W and HV series, which can withstand high mechanical and electrical loads. All our solutions meet the requirements of current railway standards and are resistant to vibrations, shocks and climactic influences.



### Klippon® Fire Rated Box

Our robust terminal boxes for the safe supply of power to emergency systems in case of fire. In accordance with DIN 4102-12, they ensure the further functioning, for example, of emergency lighting or tunnel ventilation systems for up to 90 minutes. The assembled enclosures of the Klippon® POK and Klippon® STB series are particularly suitable for locations requiring corrosion resistance, impact resistance and high protection classes.



### Klippon® Railway

Our optimal enclosure solutions for use in tunnels and trains and on tracks. The new certified Klippon® Railway portfolio is the perfect basis for customised solutions. With this product range as a basis, our team of international experts can realise customer-specific projects especially quickly and efficiently.

# Klippon® Railway for the railway technology of the future

## Customised enclosure solutions for tunnels, trains and tracks

The mobility needs of our society are growing. At the same time, the demands placed on safety, speed, comfort and efficiency are also increasing. Whether for rail vehicles, stationary systems or signalling equipment: As a leading supplier of connection solutions, we provide you with an extensive range of innovative products for the safe and reliable connection of signals, data or energy for the diverse systems and components required in the railway sector. We enhance the competitive edge of our customers with simple, optimised interfaces and connection solutions.

The experts in our assembly team will work together with you to develop exactly the industry-specific solutions you need for your railway application. Our new tested Klippon® Railway portfolio provides the perfect basis for this. This series was specially developed for applications on tracks, in trains and in tunnel systems. The extensive range enables our international experts to realise customer-specific projects quickly and efficiently. We can provide you with a complete range of services on request – from consulting and development to production and certification. With us, you get fast, uncomplicated and professional services from a single, competent source.

### Your special advantages:

- Application-specific consulting by a competent sales team
- Global network for development and certification
- Efficient, solution-oriented development on the basis of our existing portfolio
- Profound project maturity and extensive documentation aids
- International IRIS-certified project management
- Type and qualification testing services by an accredited laboratory



Use our online catalogue for further information, technical details and a selection of accessories:

[www.weidmueller.com/klipponrailway](http://www.weidmueller.com/klipponrailway)

## Enclosure solutions for use in tunnels



**Application focus 1:** Connection boxes for modern train protection systems, antennas and further trackside equipment in tunnels

**Your special advantages:**

- Durable protection of the electrical installation in demanding tunnel environments
- No compromises to visibility thanks to non-reflective surfaces
- Resistant to vibrations and falling rocks in the vicinity of the track

**Application focus 2:** Connection boxes for the fail-safe supply of power to emergency systems in tunnels

**Your special advantages:**

- Tested fire-safe and uninterruptible emergency systems (acc. to EN 45545-2, EN-45545-3, DIN 4102-12)

## Enclosure solutions for on-vehicle use



**Application focus 1:** Motor connection boxes for DC, three-phase and AC drives

**Your special advantages:**

- Space-saving design, flexible use of installation space
- Current load tolerance for lower heat and higher resistance

**Application focus 2:** Gangway connection box for distributing supply voltage in train sets

**Your special advantages:**

- Robust and secure protection for the power supply of trains
- Space-saving design, flexible use of installation space

## Enclosure solutions for trackside use



**Application focus:** Small, medium and large connection terminals for antennas, axle counters, point machines and other components along the track

**Your special advantages:**

- Protection of electrical installations in the harsh environment of railway tracks
- Secure EMC protection
- High level of resistance, even with intensive solar radiation

# Klippon® Railway

## The universal solution for enclosures in railway applications

Stainless steel and aluminium enclosures in standard sizes and individually configured

### Technical Overview

#### Technical data

	Stainless Steel	Aluminium
Enclosure material	Stainless steel 1.4301 (304) 1.5 mm	Aluminium AISI12
Surface finish outside	brushed, natural or painted depending on the variant	powder-coated
Surface finish inside	natural	natural
IP protection class acc. to DIN EN 60529	IP66 / IP67	P66, IP67, IP68
Gland plates	0 / 2 (top/bottom) or 0 / 1 (bottom) depending on the variant	-
Gland plate thickness	3 mm	-
Earthing outside	M10 stainless steel bolt, extended	M10 earthing stud
Mounting plate	optional	-
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail	
Enclosure attachment	4 or 6 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)	holes 6 mm
Lid opening	Lid can be fully removed	Lid can be fully removed
Cover attachment	M6 hexagonal slotted screws AF 10	M6 torx stainless steel screws with slot
Impact resistance acc. to DIN EN 50102	10 J (IK09)	10 J (IK09)
Gasket material	Silicone	Silicone
Operating temperature range	-60 °C...+105 °C (IP66/IP67), -60 °C...+135 °C (IP66)	-60 °C...+135 °C
Torque - lid and gland plate screws	2.5 Nm	2.5 Nm
Fire protection class acc. to EN 45545-2	HL1 - HL3	HL1 - HL3
Vibration resistance acc. to	EN 61373 1b for vehicle applications or EN 60068 (< 1m) for tunnel and trackside applications	EN 61373 1b for vehicle applications
Welding standard	EN 15085 CL2 for vehicle applications or ISO DIN EN 3834-3 for tunnel and trackside applications	-
<b>Note</b>		

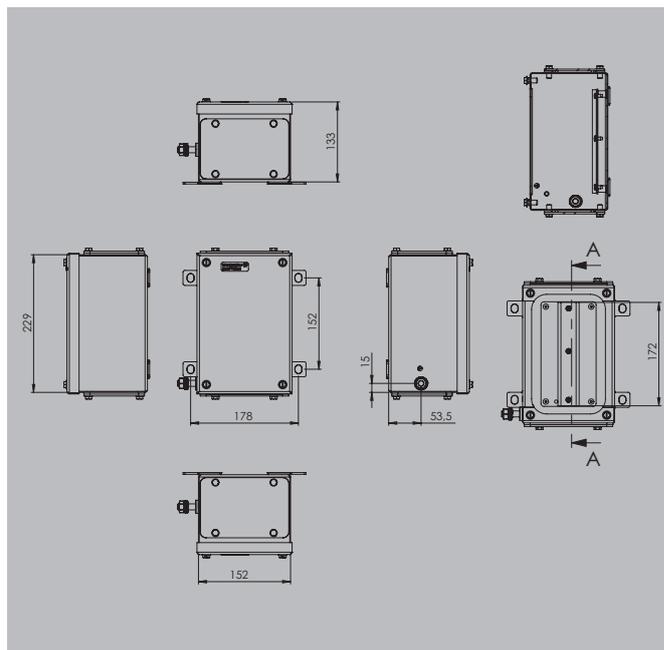
### Overview of enclosures

Description	Design	Additional assembly options (on request)	Order No.
<b>Boxes for rolling stock</b>			
KTB FS 262615 S2N2 TRAINBOX SMALL	Enclosures	HV 4000, vertical, up to 3-pole	8000080478
KTB FS 352615 S2P2 TRAINBOX HV	Terminal boxes, fitted with HV 4000, 4-pin	-	8000080479
KTB FS 453815 S2N2 TRAINBOX BIG	Enclosures	HV 4000, vertical, up to 5-pole	8000080863
KTB FS 302915 S2N2 ANGLEDBOX EDGE HV	Terminal boxes, fitted with HV 2700	-	8000092462
KLIPPON K75 3M10 HVT	Terminal boxes, fitted with HV 2700, 3-pin	-	8000148146
KLIPPON K79 4X2XM8 HVT	Terminal boxes, fitted with HV 2700, 4-pin	-	8000148147
<b>Boxes for trackside</b>			
KTB FS 262615 S2B1 TRACKBOX SMALL	Enclosures	Vertical with feed-through terminal blocks (A-Series or W-Series)	8000080480
KTB FS 553518 S2B1 TRACKBOX EQP	Terminal boxes, fitted with A2C and OVP	-	8000080481
KTB FS 624515 S2B1 TRACKBOX BIG	Enclosures	Vertical with feed-through terminal blocks (A-Series or W-Series)	8000080482
<b>Boxes for tunnel installation</b>			
KTB FS 221513 S2B2 TUBEBOX	Enclosures	Vertical with ceramic feed-through terminal blocks	8000080476
KTB FS 262615 S2B2 TUBEBOX SAKK 10	Terminal boxes, fitted with SAKK 10	-	8000080477
<b>Note</b>			



## KTB FS 221513 S2B2 TUBEBOX

Depth 133 mm



Height / Width / Depth 229 / 152 / 133 mm

## Ordering data

	Order No.
KTB FS 221513 S2B2 TUBEBOX	8000080476

**Note** This sample article can be customised to meet your requirements.

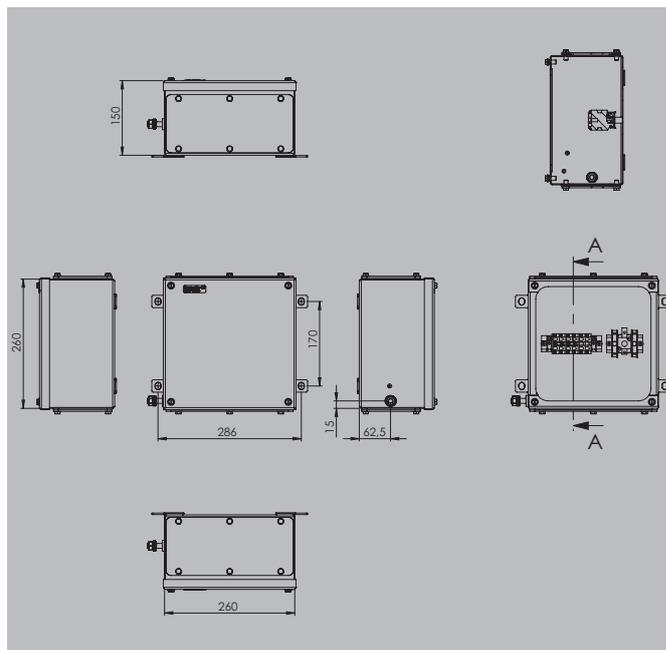
## Technical data

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 229 mm, Width: 152 mm, Depth: 133 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), Brushed, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 60068 ≤1m from the track, EN 45545 HL3
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	Brushed
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**

**KTB FS 262615 S2B2 TUBEBOX SAKK 10**

Depth **150 mm**



Height / Width / Depth 260 / 260 / 150 mm

**Ordering data**

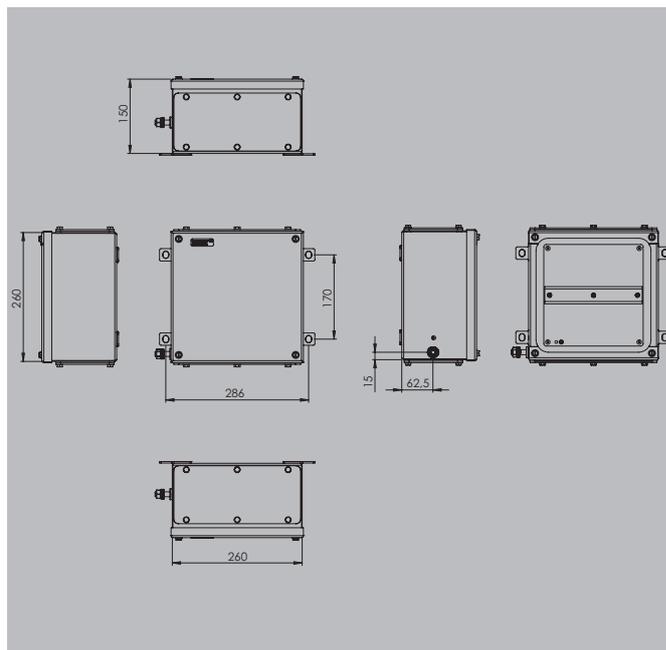
	Order No.
KTB FS 262615 S2B2 TUBEBOX SAKK 10	<b>8000080477</b>

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 260 mm, Width: 260 mm, Depth: 150 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), Brushed, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 60068 ≤1m from the track, EN 45545 HL3
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
SAKK 10	1x6
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	Brushed
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**



Height / Width / Depth 260 / 260 / 150 mm

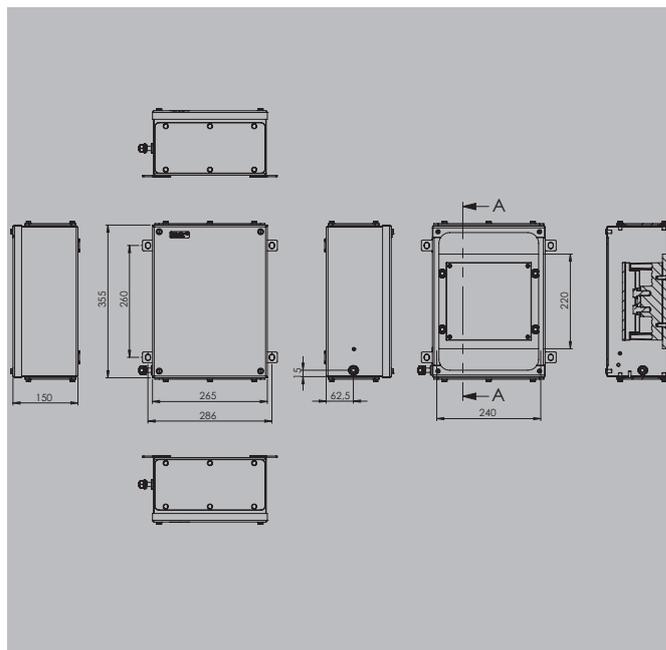
**Ordering data**

	Order No.
KTB FS 262615 S2N2 TRAINBOX SMALL	8000080478
<b>Note</b>	This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 260 mm, Width: 260 mm, Depth: 150 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), untreated, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 61373 1b, EN 45545 HL3, EN 15085 CL2
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	untreated
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**



Height / Width / Depth 350 / 260 / 150 mm

**Ordering data**

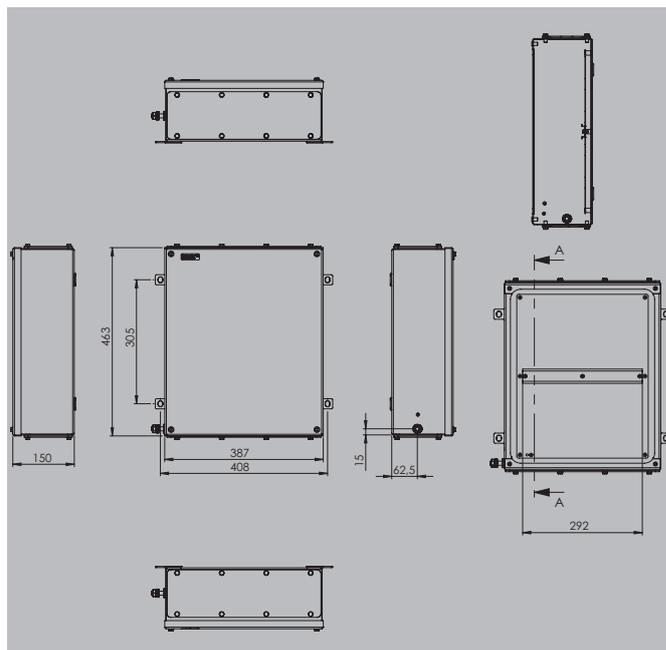
	Order No.
KTB FS 352615 S2P2 TRAINBOX HV	<b>8000080479</b>

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, straight, Height: 350 mm, Width: 260 mm, Depth: 150 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), lacquered, Deep black
Ambient temperature	-60 °C..135 °C
Protection class	IP66, IP67
Standards	EN 61373 1b, EN 45545 HL3, EN 15085 CL2
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	No
HV 4000	1x3
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	lacquered
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**



Height / Width / Depth 458 / 382 / 150 mm

**Ordering data**

	Order No.
KTB FS 453815 S2N2 TRAINBOX BIG	8000080863

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 458 mm, Width: 382 mm, Depth: 150 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), untreated, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 61373 1b, EN 45545 HL3, EN 15085 CL2
Impact resistance	10 J version standard

**Assembly**

Fuse holder available	Yes
Drill holes side A	none
Drill holes side B	none

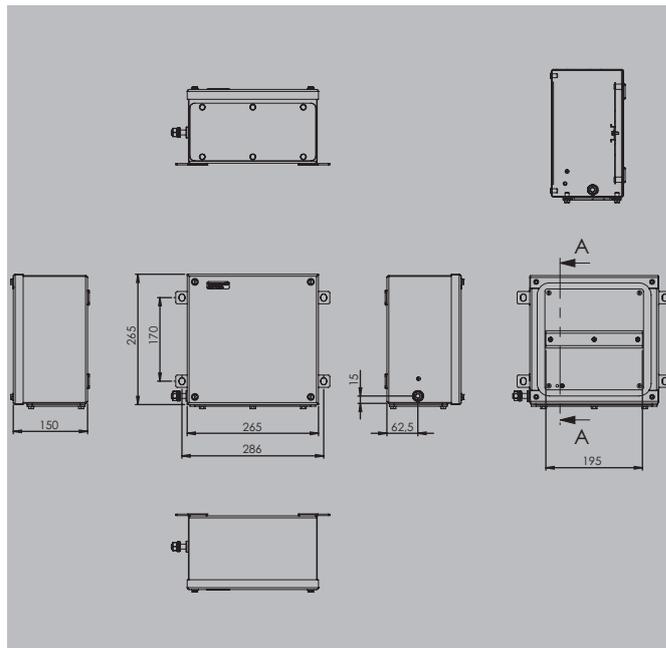
**Technical data, enclosure**

Basic material	Stainless steel 1.4301 (304)
Surface finish	untreated
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**

**KTB FS 262615 S2B1 TRACKBOX SMALL**

**Depth 150 mm**



Height / Width / Depth 260 / 260 / 150 mm

**Ordering data**

	Order No.
KTB FS 262615 S2B1 TRACKBOX SMALL	<b>8000080480</b>
<b>Note</b>	This sample article can be customised to meet your requirements.

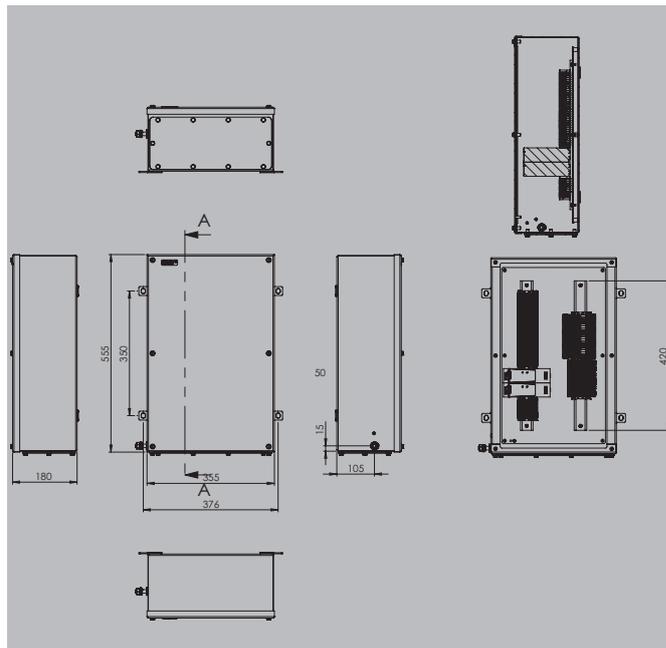
**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 260 mm, Width: 260 mm, Depth: 150 mm, Gland plates: Bottom, Basic material: Stainless steel 1.4301 (304), Brushed, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 60068 ≤1m from the track
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	Brushed
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**

## KTB FS 553518 S2B1 TRACKBOX EQP

Depth 180 mm



Height / Width / Depth 550 / 350 / 180 mm

## Ordering data

	Order No.
KTB FS 553518 S2B1 TRACKBOX EQP	8000080481

**Note** This sample article can be customised to meet your requirements.

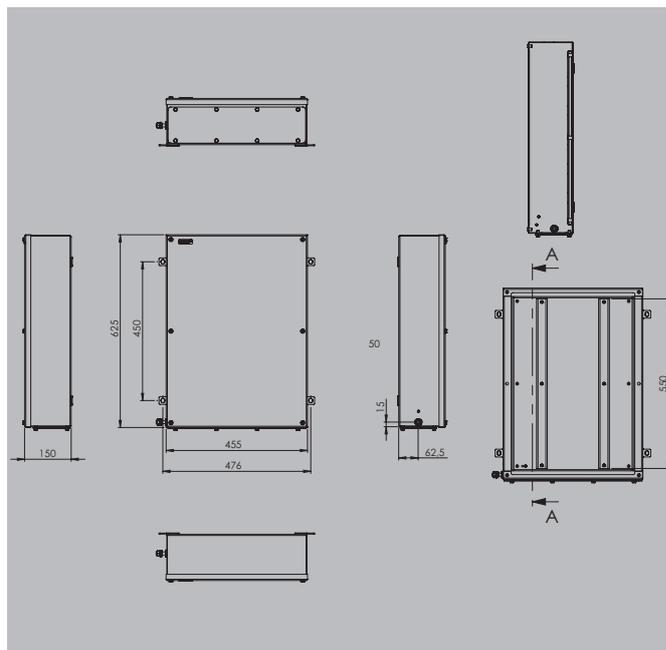
## Technical data

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 550 mm, Width: 350 mm, Depth: 180 mm, Gland plates: Bottom, Basic material: Stainless steel 1.4301 (304), Brushed, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 60068 ≤1m from the track
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Electronic components	
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	Brushed
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**

**KTB FS 624515 S2B1 TRACKBOX BIG**

**Depth 150 mm**



Height / Width / Depth 620 / 450 / 150 mm

**Ordering data**

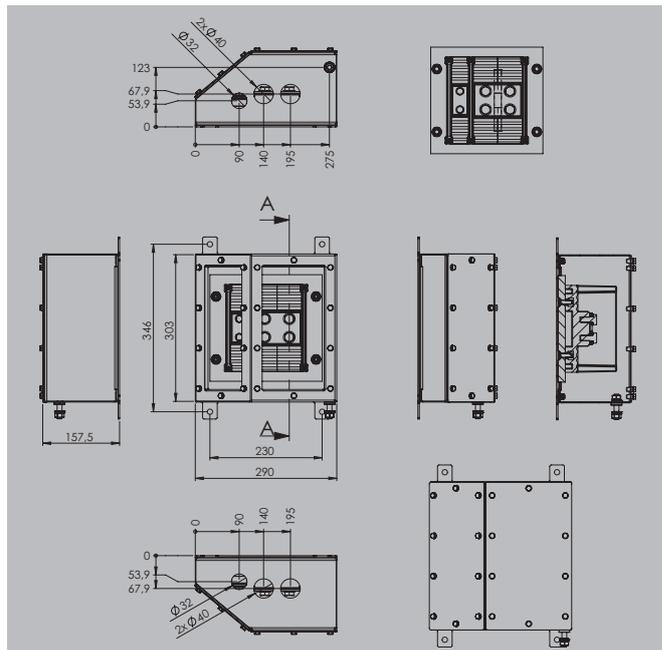
	Order No.
KTB FS 624515 S2B1 TRACKBOX BIG	<b>8000080482</b>

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Klippon TB FS (Terminal Box - Fixing Screw), Enclosures, Height: 620 mm, Width: 450 mm, Depth: 150 mm, Gland plates: Bottom, Basic material: Stainless steel 1.4301 (304), Brushed, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 60068 ≤1m from the track, EN 45545 HL3
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	Brushed
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**



Height / Width / Depth 303 / 290 / 157.5 mm

**Ordering data**

	Order No.
KTB FS 302915 S2N2 ANGLED BOX EDGE HV	8000092462
<b>Note</b>	This sample article can be customised to meet your requirements.

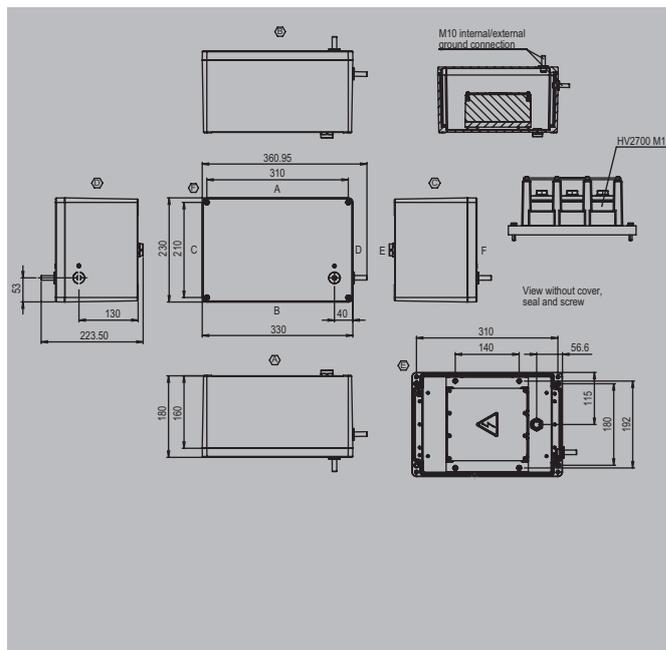
**Technical data**

Article - short description	Enclosures, Height: 303 mm, Width: 290 mm, Depth: 157.5 mm, Gland plates: Bottom, top, Basic material: Stainless steel 1.4301 (304), untreated, silver
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67
Standards	EN 61373 1b, EN 45545 HL3, EN 15085 CL2
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	No
HV 4000	1x4
Drill holes side A	none
Drill holes side B	none
<b>Technical data, enclosure</b>	
Basic material	Stainless steel 1.4301 (304)
Surface finish	untreated
Seal material	Silicone
Lid attachment	M6 hex-head slotted screws SW10
Flange plate	Yes

**Note**

**KLIPPON K75 3M10 HVT**

**Depth 181 mm**



Height / Width / Depth 230 / 330 / 181 mm

**Ordering data**

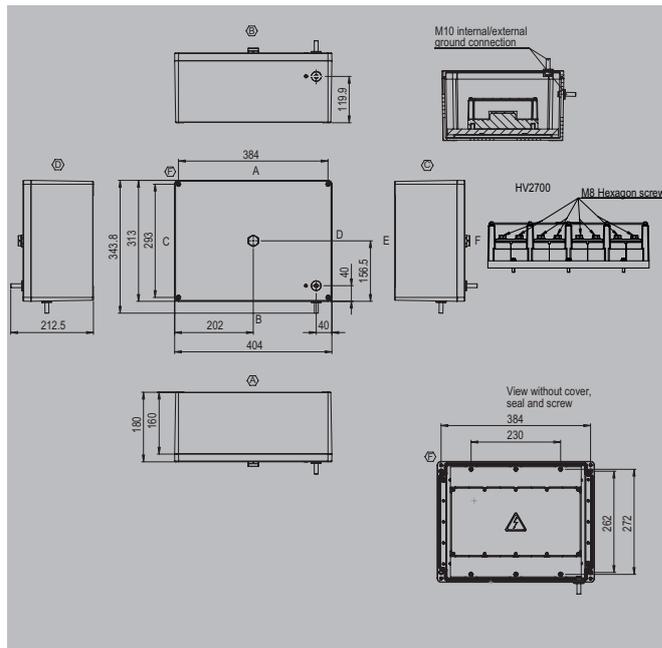
	Order No.
KLIPPON K75 3M10 HVT	<b>8000148146</b>

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Enclosures, Height: 230 mm, Width: 330 mm, Depth: 181 mm, Basic material: Aluminium AlSi12, Powder coating, Deep black
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67, IP68
Standards	EN 45545 HL3, DIN EN 50124-1, EN/IEC 61439-2
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
Drill holes side A	
Drill holes side B	
<b>Technical data, enclosure</b>	
Basic material	Aluminium AlSi12
Surface finish	Powder coating
Seal material	Silicone
Lid attachment	Torx®-20 slothead screws, M6 torx stainless steel screws with slot
Flange plate	No

**Note**



313 / 404 / 181 mm

**Ordering data**

	Order No.
KLIPPON K79 4X2XM8 HVT	<b>8000148147</b>

**Note** This sample article can be customised to meet your requirements.

**Technical data**

Article - short description	Enclosures, Height: 313 mm, Width: 404 mm, Depth: 181 mm, Basic material: Aluminium AISi12, Powder coating, Deep black
Ambient temperature	-60 °C...135 °C
Protection class	IP66, IP67, IP68
Standards	According to EN 45545, HL1 - HL3, DIN EN 50124-1, EN/IEC 61439-2
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	
Drill holes side A	
Drill holes side B	
<b>Technical data, enclosure</b>	
Basic material	Aluminium AISi12
Surface finish	Powder coating
Seal material	Silicone
Lid attachment	Torx®-20 slothead screws, M6 torx stainless steel screws with slot
Flange plate	No

**Note**



## Klippon® Fire Rated Box

### High functional integrity thanks to robust industrial enclosures

Fire protection enclosures are often used in tunnel systems. There they ensure that important electrical installations function reliably, even in the event of a fire. This is especially the case when it comes to emergency systems for lighting and ventilation. Fire protection enclosures in the Klippon® Fire Rated Box range are designed to maintain electrical connections for defined periods of 30, 60 or 90 minutes at high temperatures of up to 1,000 °C. The products are configured according to requirements and comply with the most common international standard DIN 4102-12 (E30, E60 and E90). Testing for compliance with additional specific standards can be carried out on request. Fire resistance certificates are valid for specific configurations. Other configurations must be certified separately.

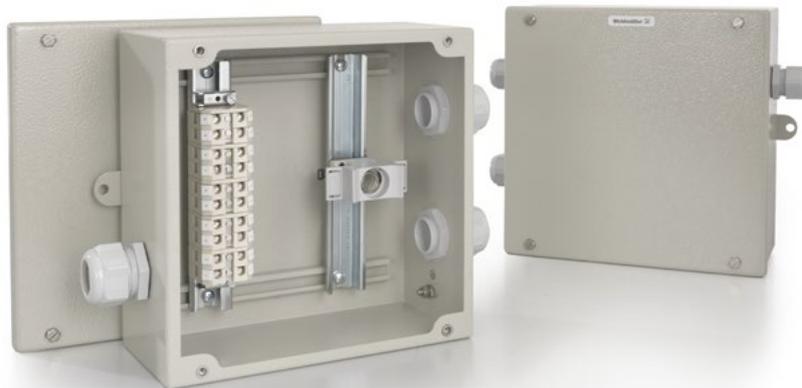
The Klippon® Fire Rated Box is available in variants made of glass fibre-reinforced plastic (Klippon® POK) or sheet steel (Klippon® STB). Both variants are extremely robust, durable and resistant to the extremely harsh environmental conditions of tunnel systems. They are highly corrosion-resistant, protected according to IP66 and impact-resistant up to 10 joules. They are fitted with high-quality ceramic terminals from the Weidmüller portfolio.

#### Your special advantages:

- Particularly robust and durable industrial enclosures
- Reliable protection of electrical functions in harsh environments
- Permanently available complete solution with high-quality components from the Weidmüller range
- Standard enclosures tested according to the most common standard DIN 4102-12 (E30, E60, E90)
- Available in four individually adaptable variants made of glass fibre-reinforced plastic or sheet steel, with or without fuse inserts
- Additional variations and customised assemblies available on request
- Ceramic terminals available with optional fuse holder



Use our online catalogue for further information, technical details and a selection of accessories:  
[www.weidmueller.com/klipponfireratedbox](http://www.weidmueller.com/klipponfireratedbox)



## Technical Overview

### Technical data

STB	
Enclosure material	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	powder-coated, pebble grey RAL 7032
IP protection class	IP 66 to DIN EN 60529
Installation mounting	Welded C-profile rail
Enclosure attachment	2 external mounting feet with 8 mm holes
Impact resistance	10J industrial version in accordance with DIN EN 50102
Gasket material	Silicone -60 °C ... +120 °C
Torque screws for cover	2.5 Nm
Temperature range	-20 °C ... +80 °C
Connection	SAKK Series ceramic terminals
Fuse carrier	optional
Switching integrity DIN 4102	max. E90
Conductor cross-section	1.5 - 10 mm <sup>2</sup>
<b>Note</b>	

## Overview of enclosures

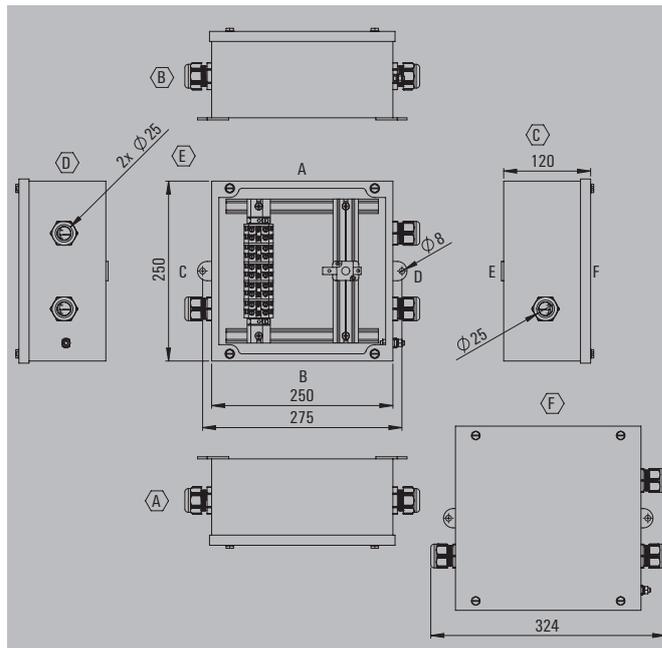
### Ordering data

Description	Height x width x depth in mm (without cable glands)	functional integrity class* (DIN 4102)	Order No.
KLIPPON STB 4 MS M25 E90	250 x 255 x 120	E90	8000052519
KLIPPON STB 4 MS FH M25 E90	250 x 255 x 120	E90	8000052592
KLIPPON STB 4 MS M32 E90	250 x 255 x 120	E90	8000054772
KLIPPON STB 4 MS FH M32 E90	250 x 255 x 120	E90	8000054773
<b>Note:</b> *The enclosures were tested with the cable variants „Dätwyler E 90 5 x 1.5 mm <sup>2</sup> “ and „EUPEN Eurocase E90 5x10 mm <sup>2</sup> “. The cabling was tested horizontally and vertically on the wall and also under the ceiling. E30-certified for all tested variants E60-certified for both cable variants E90-certified for all tested variants without fuse holder; with fuse holder only for cable variant Dätwyler 5 x 1.5			

**Klippon® Fire rated Box – Klippon® STB**

**KLIPPON STB 4 MS FH M25 E90**

**Depth 120 mm**



Height / Width / Depth 250 / 250 / 120 mm

**Ordering data**

	Order No.
KLIPPON STB 4 MS FH M25 E90	<b>8000052592</b>
<b>Note</b>	

**Technical data**

Article - short description	Klippon STB (Small Terminal Box), Enclosures, Height: 250 mm, Width: 250 mm, Depth: 120 mm, Basic material: Sheet steel, Powder-coated, Pebble grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E90
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	10 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
SAKK 10	10
Drill holes side C	1 x M25
Drill holes side D	2 x M25
<b>Technical data, enclosure</b>	
Basic material	Sheet steel
Surface finish	Powder-coated
Seal material	Silicone
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats

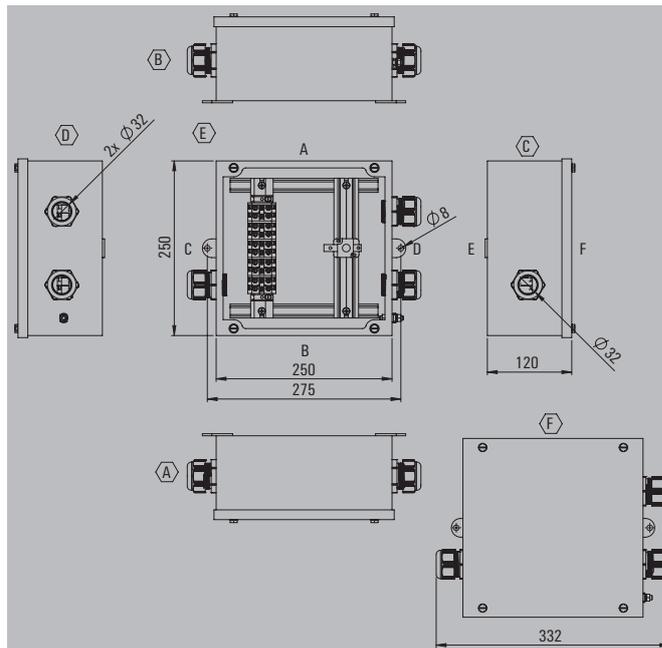
**Reference products**

	Order No.
KLIPPON STB 4 MS HT	<b>1025030000</b>
SFNS5 VKMU M5 SW15	<b>0433500000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
TS 35X15 2M/ST/ZN	<b>0236400000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M25-K67	<b>1909710000</b>
GWDR M25-NP	<b>1736250000</b>
SKMU M25 - K GR	<b>1772470000</b>
<b>Note</b>	

**Note**

**KLIPPON STB 4 MS FH M32 E90**

**Depth 120 mm**



**D**

Height / Width / Depth 250 / 250 / 120 mm

**Ordering data**

	Order No.
KLIPPON STB 4 MS FH M32 E90	<b>8000054773</b>

**Note**

**Technical data**

Article - short description	Klippon STB (Small Terminal Box), Enclosures, Height: 250 mm, Width: 250 mm, Depth: 120 mm, Basic material: Sheet steel, Powder-coated, Pebble grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E90
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	10 J version standard

**Assembly**

Fuse holder available	Yes
SAKK 10	10
Drill holes side C	1 x M32
Drill holes side D	2 x M32

**Technical data, enclosure**

Basic material	Sheet steel
Surface finish	Powder-coated
Seal material	Silicone
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats

**Reference products**

	Order No.
KLIPPON STB 4 MS HT	<b>1025030000</b>
SFNS5 VKMU M5 SW15	<b>0433500000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
TS 35X15 2M/ST/ZN	<b>0236400000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M32-K67	<b>1909720000</b>
GWDR M32-NP	<b>1736260000</b>
SKMU M32 - K GR	<b>1772480000</b>

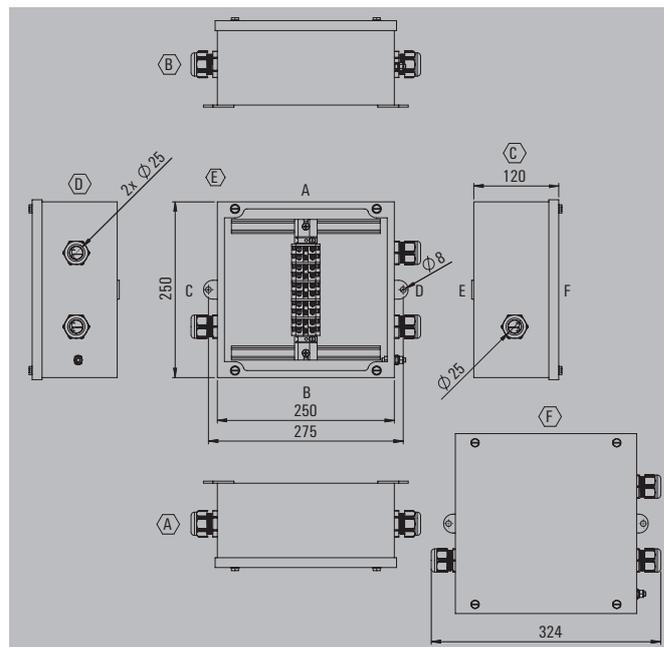
**Note**

**Note**

## Klippon® Fire rated Box – Klippon® STB

KLIPPON STB 4 MS M25 E90

Depth 120 mm



Height / Width / Depth 250 / 250 / 120 mm

## Ordering data

	Order No.
KLIPPON STB 4 MS M25 E90	<b>8000052519</b>

## Note

## Technical data

Article - short description	Klippon STB (Small Terminal Box), Enclosures, Height: 250 mm, Width: 250 mm, Depth: 120 mm, Basic material: Sheet steel, Powder-coated, Pebble grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E90
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	10 J version standard

## Assembly

Fuse holder available	No
SAKK 10	10
Drill holes side C	1 x M25
Drill holes side D	2 x M25

## Technical data, enclosure

Basic material	Sheet steel
Surface finish	Powder-coated
Seal material	Silicone
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats

## Note

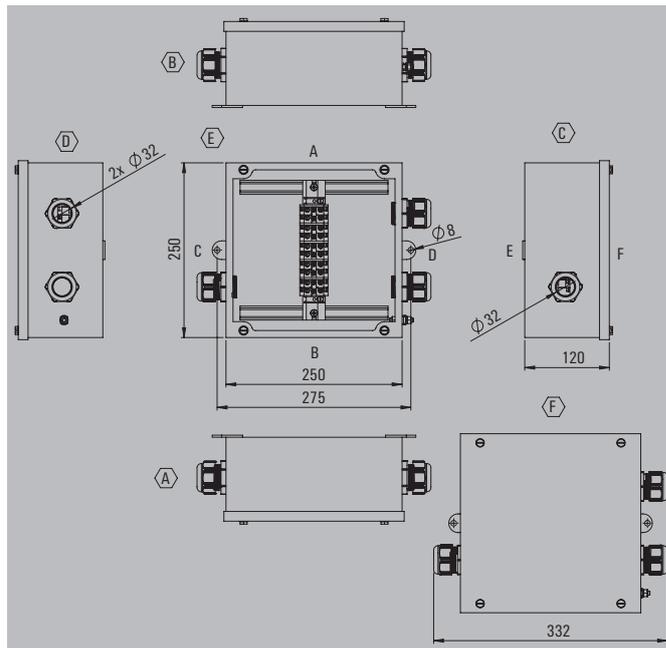
## Reference products

	Order No.
KLIPPON STB 4 MS HT	<b>1025030000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M25-K67	<b>1909710000</b>
GWDR M25-NP	<b>1736250000</b>
SKMU M25 - K GR	<b>1772470000</b>

## Note

**KLIPPON STB 4 MS M32 E90**

**Depth 120 mm**



250 / 250 / 120 mm

**Ordering data**

	Order No.
KLIPPON STB 4 MS M32 E90	<b>8000054772</b>

**Note**

**Technical data**

Article - short description	Klippon STB (Small Terminal Box), Enclosures, Height: 250 mm, Width: 250 mm, Depth: 120 mm, Basic material: Sheet steel, Powder-coated, Pebble grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E90
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	10 J version standard

**Assembly**

Fuse holder available	No
SAKK 10	10
Drill holes side C	1 x M32
Drill holes side D	2 x M32

**Technical data, enclosure**

Basic material	Sheet steel
Surface finish	Powder-coated
Seal material	Silicone
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats

**Reference products**

	Order No.
KLIPPON STB 4 MS HT	<b>1025030000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M32-K67	<b>1909720000</b>
GWDR M32-NP	<b>1736260000</b>
SKMU M32 - K GR	<b>1772480000</b>

**Note**

**Note**

## Klippon® Fire Rated Box – Klippon® POK



## Technical Overview

### Technical data

POK	
Enclosure material	Glass fibre-reinforced polyester to DIN 16913
Surface finish	Grey, similar to RAL7001
IP protection class	IP66 to DIN EN 60529
Installation mounting	M4 to M6 threaded bushes
Enclosure attachment	4 holes for M4 to M6 screws
Cover attachment	M4/M6 slotted / crosshead screws made of stainless steel
Impact resistance	IK08 (5J) acc. to DIN EN 50102
Gasket material	Chloroprene
Temperature range	-20 °C ... +80 °C
Torque screws for cover M4	2.0 - 2.5 Nm
Torque screws for cover M6	2.5 - 3.0 Nm
Surface resistance (in ohms)	1012 Ohm
Toxicity	Halogen and cadmium-free
Connection	SAKK Series ceramic terminals
Fuse carrier	optional
Switching integrity	max. E60
Conductor cross-section	1.5 - 10 mm <sup>2</sup>

#### Note

## Overview of enclosures

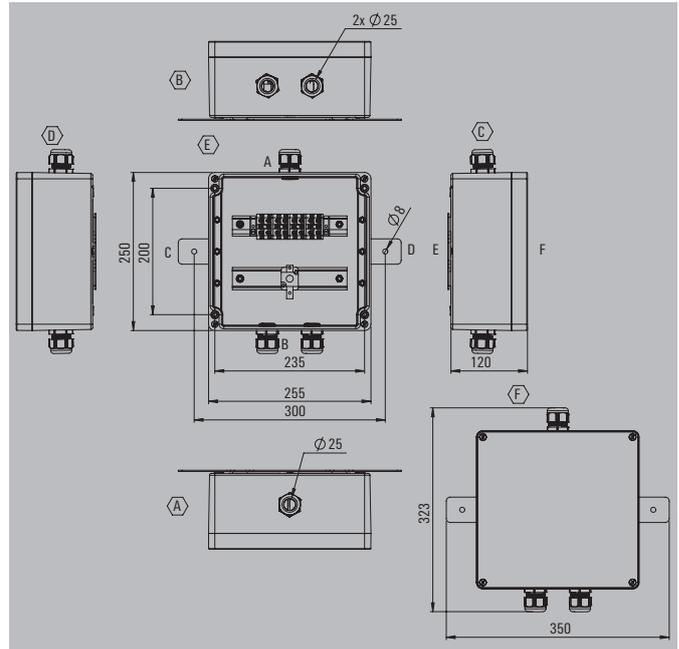
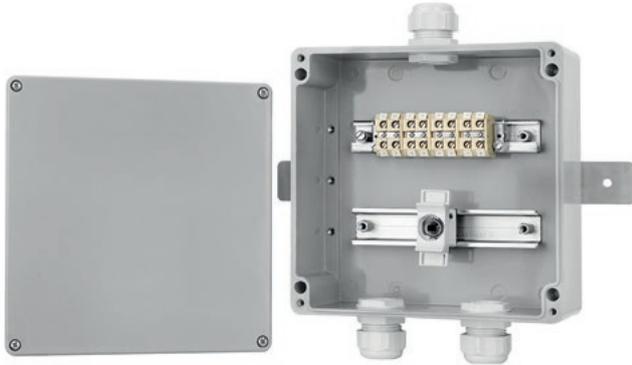
### Ordering data

Description	Height x width x depth in mm (without cable glands)	functional integrity class* (DIN 4102)	Order No.
KLIPPON POK 252512 M25 E60	250 x 255 x 120	E60	8000052518
KLIPPON POK 252512 FH M25 E60	250 x 255 x 120	E60	8000052636
KLIPPON POK 252512 M32 E60	250 x 255 x 120	E60	8000054730
KLIPPON POK 252512 FH M32 E60	250 x 255 x 120	E60	8000054731

**Note:** \*The enclosures were tested with the cable variants „Dätwyler E 90 5 x 1.5 mm<sup>2</sup>“ and „EUPEN Eurocase E90 5x10 mm<sup>2</sup>“.  
The cabling was tested horizontally and vertically on the wall and also under the ceiling.  
E30-certified for all tested variants  
E60-certified for cable variant Dätwyler 5 x 1.5

**KLIPPON POK 252512 FH M25 E60**

**Depth 120 mm**



Height / Width / Depth 250 / 255 / 120 mm

**Ordering data**

	Order No.
KLIPPON POK 252512 FH M25 E60	<b>8000052636</b>
<b>Note</b>	

**Technical data**

Article - short description	Klippon POK (polyester empty enclosure), Enclosures, Height: 250 mm, Width: 255 mm, Depth: 120 mm, Basic material: Glass fibre-reinforced polyester, untreated, Light Grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E60
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	5 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
SAKK 10	8
Drill holes side A	1 x M25
Drill holes side B	2 x M25
<b>Technical data, enclosure</b>	
Basic material	Glass fibre-reinforced polyester
Surface finish	untreated
Seal material	Chloroprene
Lid attachment	Crosshead screws, stainless steel

**Reference products**

	Order No.
KLIPPON POK 252512	<b>1305930000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
TS 35X15 2M/ST/ZN	<b>0236400000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M25-K67	<b>1909710000</b>
GWDR M25-NP	<b>1736250000</b>
SKMU M25 - K GR	<b>1772470000</b>
<b>Note</b>	

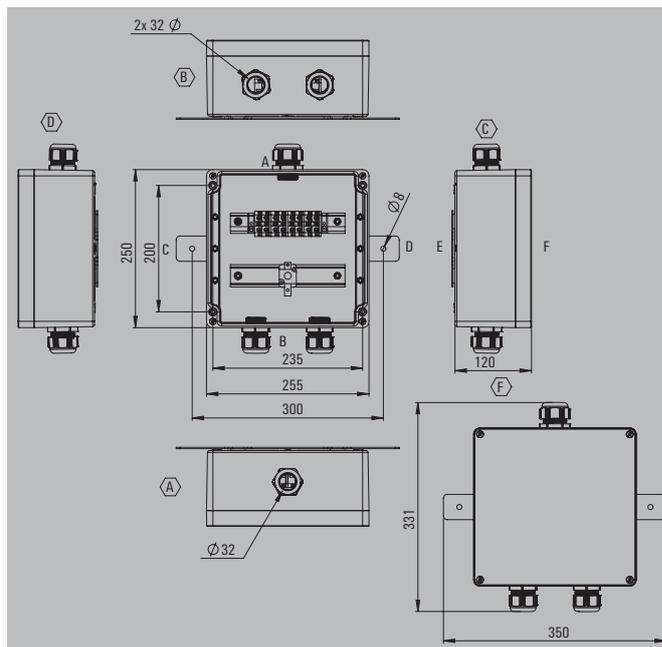
**D**

**Note**

## Klippon® Fire rated Box – Klippon® POK

KLIPPON POK 252512 FH M32 E60

Depth 120 mm



Height / Width / Depth 250 / 255 / 120 mm

### Ordering data

	Order No.
KLIPPON POK 252512 FH M32 E60	8000054731
<b>Note</b>	

### Technical data

Article - short description	Klippon POK (polyester empty enclosure), Enclosures, Height: 250 mm, Width: 255 mm, Depth: 120 mm, Basic material: Glass fibre-reinforced polyester, untreated, grey, Light Grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E60
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	5 J version standard
<b>Assembly</b>	
Fuse holder available	Yes
SAKK 10	8
Drill holes side A	1 x M32
Drill holes side B	2 x M32
<b>Technical data, enclosure</b>	
Basic material	Glass fibre-reinforced polyester
Surface finish	untreated
Seal material	Chloroprene
Lid attachment	Crosshead screws, stainless steel

### Reference products

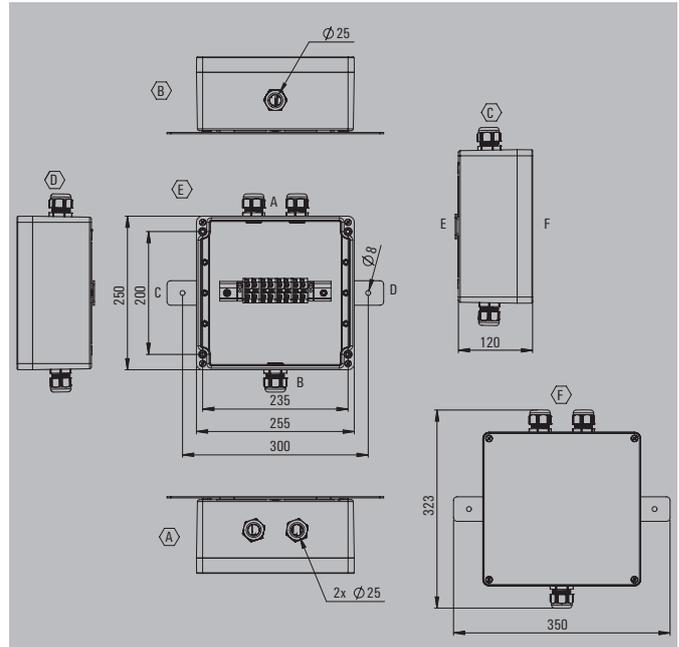
	Order No.
KLIPPON POK 252512	1305930000
TS 32X15 2M/ST/ZN	0122800000
TS 35X15 2M/ST/ZN	0236400000
SAKK 10	9502610000
QL 2 SAKK10	9502650000
KISC M3X20.5/10 EK4	0303000000
AP SAKK4/10 KER/WS	9502630000
VH 12.5/5/3.4	0300800000
MEW 1/32	0445600000
WS 8/8 MM WS	2007170000
VG M32-K67	1909720000
GWDR M32-NP	1736260000
SKMU M32 - K GR	1772480000

**Note**

**Note**

**KLIPPON POK 252512 M25 E60**

**Depth 120 mm**



Height / Width / Depth 250 / 255 / 120 mm

**Ordering data**

	Order No.
KLIPPON POK 252512 M25 E60	<b>8000052518</b>
<b>Note</b>	

**Technical data**

Article - short description	Klippon POK (polyester empty enclosure), Enclosures, Height: 250 mm, Width: 255 mm, Depth: 120 mm, Basic material: Glass fibre-reinforced polyester, untreated, grey, Light Grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E60
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	5 J version standard
<b>Assembly</b>	
Fuse holder available	No
SAKK 10	8
Drill holes side A	2 x M25
Drill holes side B	1 x M25
<b>Technical data, enclosure</b>	
Basic material	Glass fibre-reinforced polyester
Surface finish	untreated
Seal material	Chloroprene
Lid attachment	Crosshead screws, stainless steel

**Reference products**

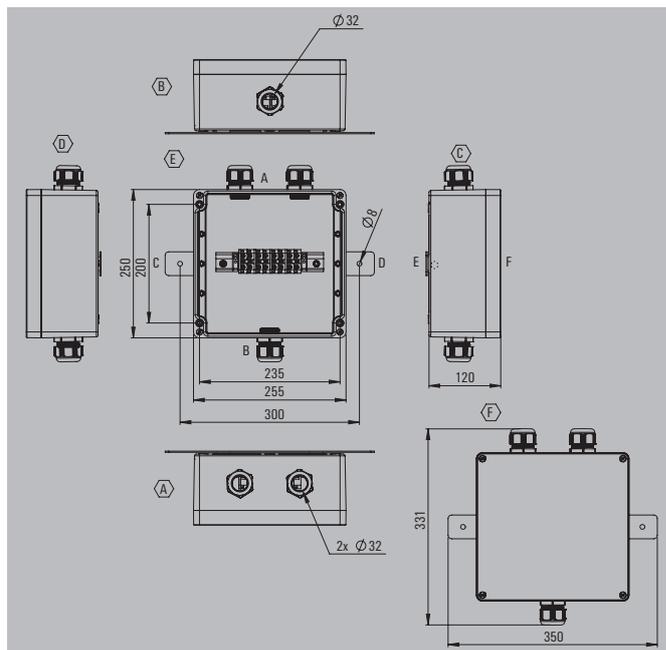
	Order No.
KLIPPON POK 252512	<b>1305930000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M25-K67	<b>1909710000</b>
GWDR M25-NP	<b>1736250000</b>
SKMU M25 - K GR	<b>1772470000</b>
<b>Note</b>	

**Note**

**Klippon® Fire rated Box – Klippon® POK**

**KLIPPON POK 252512 M32 E60**

**Depth 120 mm**



250 / 255 / 120 mm

**Ordering data**

	Order No.
KLIPPON POK 252512 M32 E60	<b>8000054730</b>
<b>Note</b>	

**Technical data**

Article - short description	Klippon POK (polyester empty enclosure), Enclosures, Height: 250 mm, Width: 255 mm, Depth: 120 mm, Basic material: Glass fibre-reinforced polyester, untreated, Light Grey
Ambient temperature	-20...80 °C
Protection class	IP66
Fire resistance class according to DIN 4102-12	E60
Standards	DIN 4102-04, DIN 4102-12
Impact resistance	5 J version standard
<b>Assembly</b>	
Fuse holder available	No
SAKK 10	8
Drill holes side A	2 x M32
Drill holes side B	1 x M32
<b>Technical data, enclosure</b>	
Basic material	Glass fibre-reinforced polyester
Surface finish	untreated
Seal material	Chloroprene
Lid attachment	Crosshead screws, stainless steel

**Reference products**

	Order No.
KLIPPON POK 252512	<b>1305930000</b>
TS 32X15 2M/ST/ZN	<b>0122800000</b>
SAKK 10	<b>9502610000</b>
QL 2 SAKK10	<b>9502650000</b>
KISC M3X20.5/10 EK4	<b>0303000000</b>
AP SAKK4/10 KER/WS	<b>9502630000</b>
VH 12.5/5/3.4	<b>0300800000</b>
MEW 1/32	<b>0445600000</b>
WS 8/8 MM WS	<b>2007170000</b>
VG M32-K67	<b>1909720000</b>
GWDR M32-NP	<b>1736260000</b>
SKMU M32 - K GR	<b>1772480000</b>
<b>Note</b>	

**Note**

# Cable entries

<b>Cable entries</b>	Introduction	E.2
	Overview	E.4
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	Standard cable glands - Brass	E.7
	EMC cable glands	E.9
	Standard cable glands - Stainless steel	E.11
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	Ex-cable glands	E.14
	Ex-cable glands - Plastic	E.22
	Accessories - Lock nuts	E.24
	Accessories - Flat IP washer	E.29
	Accessories - Earthing rings	E.32
	Blanking plugs	E.33
	Ex-Blanking plugs	E.35
	Compensating elements	E.39
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## Cable entries

Weidmüller offers a variety of add-on components for a multitude of purposes and applications to complement its extensive Klippon® Protect range.

In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalising elements, adapters and relevant accessories – such as lock nuts, flat gaskets, flat washers and earthing rings – available.

To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K. They can be used in standard industrial applications, EMC applications or even in potentially explosive atmospheres as required, and they comply with the approvals required for these purposes.

Ex-certified cable glands also allow for the connection of cables and conductors with different reinforcements with and without lead sheathing, as well as the connection of steel wire and steel tape cables. They can also be used in a temperature range of between -50 °C and +120 °C.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalising elements and accessories are manufactured and certified according to the following standards:

- IEC/EN 62444 (construction and performance)
- IEC/EN 60529 (IP protection class testing)
- IEC/EN 60079-0 (general Ex requirements)
- IEC/EN 60079-1 (Ex d Ex standard)
- IEC/EN 60079-7 (Ex e Ex standard)
- IEC/EN 60079-11 (Ex i Ex standard)
- IEC/EN 60423 (metric screw thread)
- DIN 40430 (PG and NPT thread)

The range of cable glands, sealing plugs and pressure-equalising elements is available in metric (M) and high-strength (PG) threads in sizes ranging from M12 to M75 and PG7 to PG48. When choosing cable glands and sealing plugs, please refer to the table with the sealing characteristics of the O-rings, flat gaskets and seal inserts. O-rings and flat gaskets are always intended for sealing the connecting thread on an enclosure, for example, while the sealing insert of each cable gland is intended for actually sealing and clamping the connecting cable.



You can find this product family in our Weidmüller Configurator:

[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor, or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed. Please also refer to the instruction manual; deviating information is possible.

#### Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	Through-hole, in mm
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

#### Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santoprene	-40 °C to +130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C to +130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C to +130 °C	Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels	weak	40 - 90	No	good
EPDM	Ethylene-propylene-diene rubber	Keltan	-50 °C to +130 °C	Weather-, grease-, mineral oil-, chlorine-, and ozone resistant, hydrocarbons	weak	20 - 90		very good
FPM	Fluoro-rubber	Viton	-25 °C to +200 °C	ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals	weak	65 - 95		good

**Note:** The data refer only to the sealing material, not to the entire component.

#### Abbreviations - technical data

A, L	Length in mm
L1	Length of thread in mm
D	Diameter in mm
S	Thickness in mm
S1, S2	Depth in mm
SW, SW1, SW2	Distance across flats in mm
KB	Clamping range in mm
KB ZE	Clamping range strain relief in mm
Thread	External thread
SUHB	Shroud / Protective cap
DR	Tightening torque in Nm
HM	Cap nut / pressure screw
Qty.	Packing unit in pieces

#### Product designation

VP HEX	Sealing plugs with hexagon head
A2L	Ex Cable gland
A2LC	Ex Cable gland with conduit connection thread
E1W	Ex Cable Gland with double sealing for SWA armoured cable
E1XZ	Ex Cable Gland with double sealing for SWB/STA armoured cable
VG	Cable gland
VP	Sealing plugs
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
SZS	Serrated Star Washers (Serrated washers)
ZE	Strain relief
EMV	Electromagnetic compatibility
EA	Earthing ring
SKS	Spiral kink protection
GWDR	Thread sealing ring or flat gasket

# Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.

## Standard cable glands

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection		Ex	EMC	Armouring	CSM GWDR PO	CR GWDR...NP	O-Ring	grey	black	brass	MS EMC
without seal	with seal	SKMU...K GR							SKMU...KSW	SKMU...MS	SKMU EMV...	
<b>Plastic</b>												
 VG ... K68	IP68 / 5 bar								•			
<b>Nickel-plated brass</b>												
 VG ... MS68	IP54, IP66, IP68 / 5 bar, IP69k							included			•	
 VGM...MS68...BG	IP68							included			•	
 VG ... EMV-4	IP66, IP68 / 5 bar, IP69k			•				included				•
 VGM...EMC...SET	IP68			•				included				•
<b>Stainless steel</b>												
 VG...SS68	IP54, IP66, IP68 / 5 bar, IP69k							included			•	
 VGM...SS68...BG	IP68							included			•	

## Cable glands HQ

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection		Ex	EMC	Armouring	CSM GWDR PO	CR GWDR...NP	O-Ring	grey	black	brass	MS EMC
without seal	with seal	SKMU...K GR							SKMU...KSW	SKMU...MS	SKMU EMV...	
<b>Nickel-plated brass, Ex</b>												
 VG ... K68 ...	IP65											
<b>Brass Ex</b>												
 VG ... MS68 ...	IP65											
 VG ... EMV68 ...	IP65			•								

## Cable glands Ex

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection		Ex	EMV	Armouring	GWDR...WM	CR GWDR...NP	O-Ring	grey	black	brass	MS EMV
ohne Dichtring	mit Dichtring	SKMU...K GR							SKMU...KSW	SKMU...MS	SKMU EMV...	
<b>Nickel-plated brass, Ex</b>												
 A2L	IP66, IP68		Ex e/d			optional	included				•	
 A2LC	IP66, IP68		Ex e/d			optional	included				•	
 E1W	IP66, IP68		Ex e/d		•	optional	included				•	
 E1XZ	IP66, IP68		Ex e/d		•	optional	included				•	
<b>Plastic Ex</b>												
 VG...EXI...7J	IP54, IP66, IP68 / 5 bar		Ex e				included			•		
 VG...EXE...7J	IP54, IP66, IP68 / 5 bar		Ex i				included			•		
<b>Note:</b>	* Available on request. Ex - Stainless steel glands on request											

**Adaptor**

Material/Type	Approvals		Thread sealing rings			Locknuts			
	IP class of protection with seal	Ex	GWDR PO	CR GWDR...NP	O-Ring	grey SKMU...KGR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
<b>Plastic</b>									
 DAE M12 PA	IP66, IP68, IP69K				included				
 DAE M12 PA long	IP66, IP68, IP69K				included		•		
<b>Stainless steel</b>									
 DAE M12 SS	IP66, IP68, IP69K				included			•	•
<b>Brass Ex</b>									
 KLIPPON BDX ... B	IP66				included				
<b>Stainless steel Ex</b>									
 KLIPPON BDX ... S	IP66				included				

**Stopping plugs**

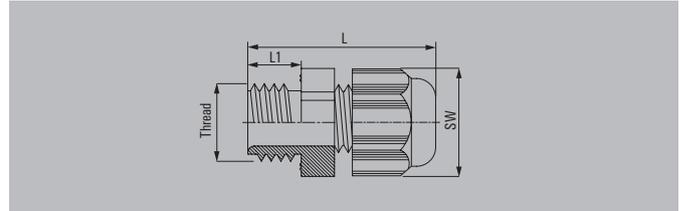
Material/Type	Approvals		Thread sealing rings			Locknuts				
	IP class of protection without seal	IP class of protection with seal	Ex	GWDR PO	CR GWDR...NP	O-Ring	grey SKMU...KGR	black SKMU...K SW	brass SKMU...MS	MS EMV SKMU EMV...
<b>Plastic</b>										
 VP ... K54	IP54	IP65					•			
<b>Nickel-plated brass</b>										
 VP ... MS65		IP68			included				•	
<b>Stainless steel</b>										
 VPS...		IP66, IP68	Ex e/d		included				•	
<b>Plastic Ex</b>										
 VP...Ex SW	IP54, IP66	IP66, IP68	Ex e		optional		•			
<b>Nickel-plated brass, Ex</b>										
 VP...HEX		IP54, IP66, IP68	Ex e/d		included				•	

## Standard cable glands – Plastic

## Cable glands – Plastic – IP68



Cable gland made of plastic with integrated strain relief for industrial applications where IP67 or IP68 protection is required. Tested and approved according to EN 62444 and UL514B.



## Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	CR
Temperature range	-40 °C...100 °C
Protection class	IP67, IP68 - 5 bar (30 min.)
Flammability rating	V-2
<b>Note</b>	Version with moulded sealing lip. Length L varies depending on the cable diameter used.

## Ordering data

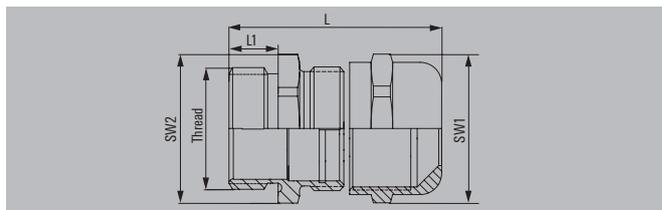
Type	Thread	KB	L/L1	SW	Qty.	Order No.
<b>metric</b>						
VG M12-1/K68	M 12	3-6.5	30.5 / 8	15	100	1772280000
VG M16-1/K68	M 16	4-8	34.5 / 8	19	50	1909860000
VG M16 - K 68	M 16	5-10	40 / 10	22	50	1772290000
VG M20-1/K68	M 20	6-12	39.5 / 10	24	50	1772300000
VG M20 - K 68	M 20	10-14	41 / 10	27	50	2811470000
VG M25-1/K68	M 25	11-17	43 / 8	29	50	1909870000
VG M25 - K 68	M 25	13-18	47 / 10	33	25	1772310000
VG M32-1/K68	M 32	15-21	52 / 10	36	20	1909880000
VG M32 - K 68	M 32	18-25	56 / 15	42	20	1772320000
VG M40-1/K68	M 40	19-28	57 / 10	46	10	1909890000
VG M40 - K 68	M 40	22-32	69.5 / 18	53	10	1772330000
VG M50 - K 68	M 50	30-38	71 / 18	60	10	1772340000
VG M63-1/K68	M 63	34-44	71 / 18	65	10	1772350000
<b>PG</b>						
VG 7-K68	PG 7	3-6.5	30 / 8	15	100	1568970000
VG 9-K68	PG 9	4-8	34.5 / 8	19	50	1568980000
VG 11-K68	PG 11	5-10	37 / 8	22	50	1568990000
VG 13.5-K68	PG 13.5	6-12	39 / 10	24	50	1569000000
VG 16-K68	PG 16	10-14	41 / 10	27	50	1569010000
VG 21-K68	PG 21	13-18	48 / 11	33	25	1569020000
VG 29-K68	PG 29	18-25	52 / 11	42	20	1569030000
VG 36-K68	PG 36	22-32	64.5 / 13	53	10	1569040000

**Note** Long-thread version on request, halogen-free without sealing ring.  
Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

Cable glands – Brass – IP68



Cable gland made of brass for industrial applications where IP68 or IP69K protection is required.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Protection degree with GWDR	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
<b>Note</b>	Length "L" varies depending on the cable diameter used; IP69K protection applies to all metric cable glands; the following thread sizes are excluded from IP69K: PG29, PG36, PG42 and PG48.

Ordering data

Type	Thread	KB	L/L1	SW1/SW2	Qty.	Order No.
<b>metric</b>						
VG M12 - MS 68	M 12	3-6.5	28 / 6	14 / 14	50	1772200000
VG M16 - MS 68	M 16	4-8	30 / 7	17 / 18	50	1772210000
VG M16-1/MS68	M 16	5-10	35.5 / 7	20 / 20	50	1909910000
VG M20 - MS 68	M 20	6-12	34.5 / 8	22 / 22	50	1772220000
VG M25 - MS 68	M 25	10-14	35.7 / 8	24 / 27	25	1772230000
VG M25-1/MS68	M 25	11-17	40.5 / 8	27 / 27	25	1909920000
VG M32 - MS 68	M 32	13-18	42 / 9	30 / 34	10	1772240000
VG M32-1/MS68	M 32	15-21	44 / 8	34 / 34	10	1909930000
VG M40 - MS 68	M 40	18-25	47 / 9	40 / 43	10	1772250000
VG M40-1/MS68	M 40	19-28	52.5 / 9	43 / 43	10	1909940000
VG M50 - MS 68	M 50	22-32	57 / 9	50 / 55	5	1772260000
VG M50-1/MS68	M 50	27-38	61 / 9	58 / 58	5	1909950000
VG M63 - MS 68	M 63	34-44	67 / 14	64 / 68	5	1772270000
<b>PG (IP69K)</b>						
VG 7-MS68	PG 7	3-6.5	28 / 6	14 / 14	50	1569060000
VG 9-MS68	PG 9	4-8	29.5 / 6	17 / 17	50	1569070000
VG 11-MS68	PG 11	5-10	32 / 6	20 / 20	50	1569080000
VG 13.5-MS68	PG 13.5	6-12	31 / 6.5	22 / 22	50	1569090000
VG 16-MS68	PG 16	10-14	34.5 / 6.5	24 / 24	25	1569100000
VG 21-MS68	PG 21	13-18	39.7 / 7.2	30 / 30	25	1569110000
<b>PG (IP68)</b>						
VG 29-MS68	PG 29	18-25	46.5 / 8	40 / 40	10	1569120000
VG 36-MS68	PG 36	22-32	57 / 9	50 / 50	5	1569130000

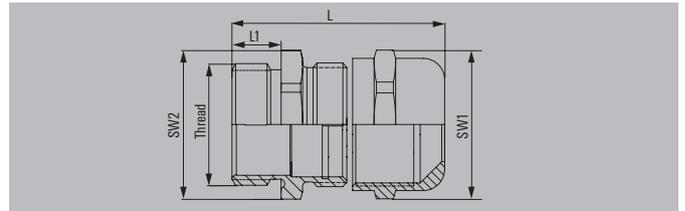
**Note** Long-thread version on request  
 VDE for metric version  
 Installation specifications and tightening torques can be found in the installation instructions.  
 For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

## Standard cable glands – Brass

## Cable glands – Brass – IP68



Cable gland made of brass with spherical sealing insert which squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material conforms to the requirements of EN 45545.



## Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar
<b>Note</b>	

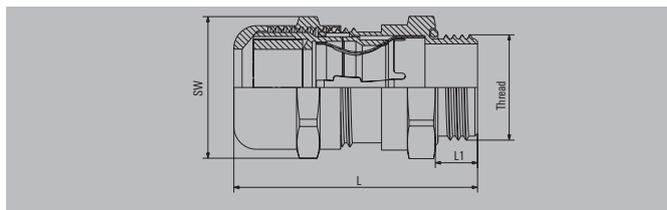
## Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-MS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	1193600000
VGM32-MS68 15-25 BG	M 32	15-25	40 / 8	36	25	1193610000
VGM40-MS68 20-32 BG	M 40	20-32	43 / 8	45	10	1193620000
VGM40/1-MS68 20-32 BG	M 40	20-32	82 / 8	45	10	1205890000
<b>Note</b>	When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle. Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://catalog.weidmueller.com">catalog.weidmueller.com</a>					

## Cable glands – Brass – EMC-4



Cable gland made of brass with EMC contact system for the particularly time-saving installation of shielded cables. It is characterised by the following features: very low installation effort, vibration-resistant and patented active contact system.



## Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection class	IP66, IP68 - 5 bar (30 min.), IP69K
Clamp insert	Polyamide
<b>Note</b>	

## Ordering data

Type	Thread	KB	Shield Ø	L/L1	SW	Qty.	Order No.
VG M12 EMV-4 MS 3-6.5	M 12	3-6.5	2.00-5.00	34 / 6	14	50	2435070000
VG M16 EMV-4 MS 5-10	M 16	5-10	3.50-8.00	39 / 6	20	50	2435140000
VG M20 EMV-4 MS 6-12	M 20	6-12	4.50-10.00	38 / 6	22	50	2435150000
VG M20 EMV-4 MS 8-14	M 20	7.5-14	5.50-11.50	48 / 8	24	50	2435160000
VG M25 EMV-4 MS 10-18	M 25	10-18	7.00-14.00	51 / 8	30	25	2435170000
VG M32 EMV-4 MS 16-25	M 32	16-25	12.00-20.00	62 / 9	40	10	2435180000
VG M40 EMV-4 MS 22-32	M 40	22-32	18.00-27.00	69.5 / 9	50	5	2435190000

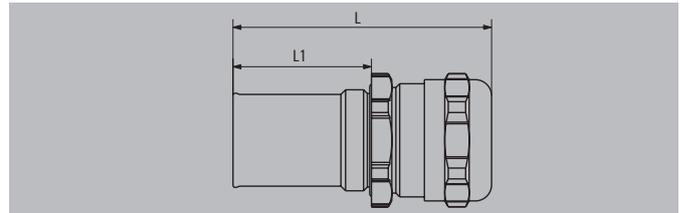
**Note** Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

## EMC cable glands

## Cable glands – Brass – EMC SET



Cable gland made of brass for internal shield connection or potential equalisation; easy-to-use, permanent, secure shield connection. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



## Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar

## Note

## Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-MS68 EMC 11-20SET	M 25	11-20	63.5 / 7.5	30	1	1463720000
VGM32-MS68 EMC 15-25SET	M 32	15-25	66.5 / 8	36	1	1463730000

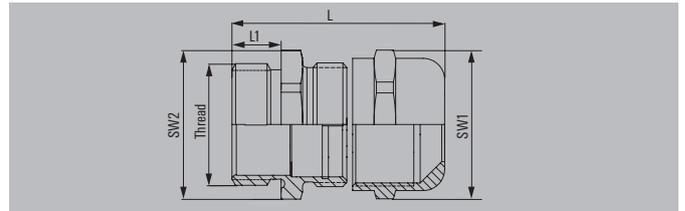
## Note

Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

## Cable glands – Stainless steel – IP68



Cable gland made of stainless steel for standard industrial applications that require a high degree of protection (IP68 or IP69K). These cable glands – with their resistance to impact and sea water – are also suitable for use in applications under extreme environmental conditions.



## Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
<b>Note</b>	

## Ordering data

Type	Thread	KB	L/L1	SW1/SW2	Qty.	Order No.
<b>metric</b>						
VGM12-SS 68 KB 3-6.5	M 12	3-6.5	28 / 6	14 / 14	50	1009840000
VGM16-SS 68 KB 4-8	M 16	4-8	30 / 7	17 / 19	50	1009850000
VGM20-SS 68 KB 6-12	M 20	6-12	32 / 8	22 / 22	50	1009860000
VGM25-SS 68 KB 10-14	M 25	10-14	35.5 / 8	24 / 27	25	1009870000
VGM32-SS 68 KB 13-18	M 32	13-18	41.5 / 9	30 / 36	20	1009880000
VGM40-SS 68 KB 18-25	M 40	18-25	49.6 / 9	41 / 46	20	1009890000
VGM50-SS 68 KB 22-32	M 50	22-32	55 / 9	50 / 55	5	1009900000

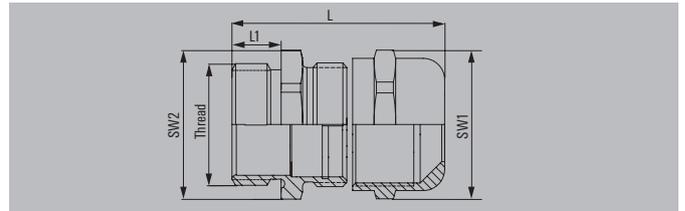
**Note** 1.4404 (316L) on request.  
Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

## Standard cable glands – Stainless steel

## Cable gland – Stainless steel – IP68



Cable gland with spherical seal insert that squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



## Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	Silicone / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar

## Note

## Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-SS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	1193570000
VGM32-SS68 15-25 BG	M 32	15-25	40 / 8	36	25	1193580000
VGM40-SS68 20-32 BG	M 40	20-32	43 / 8	45	10	1193590000
VGM40/1-SS68 20-32 BG	M 40	20-32	82 / 8	45	10	1205920000

## Note

When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle.  
Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [catalog.weidmueller.com](http://catalog.weidmueller.com)

## HQ cable glands



Cable gland especially for heavy-duty connectors of the HQ series, available in plastic, brass and as brass EMC version.

### Technical data

Material	Polycarbonate
Seal insert	TPE
Temperature range	-20 °C ... 100 °C
Protection class	IP68
<b>Note</b>	

### Ordering data

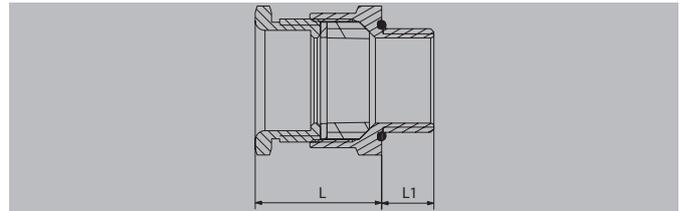
Type	Thread	KB	SW	Qty.	Order No.
<b>Plastic</b>					
VG 16 HQ K68 4-6.5	PG 16	4-6.5	27	1	2715990000
VG 16 HQ K68 6.5-9.5	PG 16	6.5-9.5	27	1	1273890000
VG 16 HQ K68 9-13	PG 16	9-13	27	1	1016070000
VG 16 HQ K68 11.5-15.5	PG 16	11.5-15.5	27	1	1016080000
<b>brass</b>					
VG 21 HQ MS68 9-13	PG 21	9-13	30	1	1016090000
VG 21 HQ MS68 11.5-15.5	PG 21	11.5-15.5	30	1	1016100000
VG 21 HQ MS68 14-18	PG 21	14-18	30	1	1016110000
<b>EMC</b>					
VG 21 HQ EMV68 11-15.5	PG 21	11-15.5	30	1	1016120000
VG 21 HQ EMV68 14-18	PG 21	14-18	30	1	1016130000
<b>only for angled HQ base enclosure (order number 1003110000)</b>					
VG16 HQ K68 9-12SH	PG 16	9-12	30	50	1045530000
VG16 HQ K68 11.5-15.5SH	PG 16	11.5-15.5	30	1	1045540000
<b>Note</b>					
Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://eshop.weidmueller.com">eshop.weidmueller.com</a> .					

## Ex-cable glands

## Ex-cable glands – Nickel-plated Brass – Ex e, Ex d, IP68 for non-armoured cables



Type A2L cable glands are suitable for non-armoured cables and are approved for flameproof Ex d and Ex e explosion protection with increased safety.



## Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	Silicone / Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used. Cable glands made of brass with natural surface are available in the online catalogue (eshop.weidmueller.com).

## Ordering data

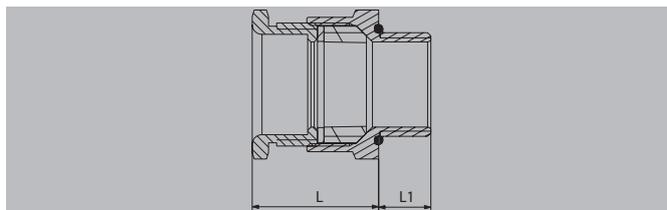
Type	Thread	D1 outer cable Ø	L/L1	SW	Qty.	Order No.
<b>metric</b>						
A2L/16/M16-WM	M 16 x 1.5	4.5-8.7	51.8 / 16	24	24	1186880000
A2L/20/M20-WM	M 20 x 1.5	10-14	51.8 / 16	28	24	1186900000
A2L/20S/M20-WM	M 20 x 1.5	8-11.7	51.8 / 16	26	24	1186890000
A2L/25/M25-WM	M 25 x 1.5	13.5-20	53.8 / 16	36	12	1186910000
A2L/32/M32-WM	M 32 x 1.5	19.5-26.3	54.8 / 16	42	12	1186920000
A2L/40/M40-WM	M 40 x 1.5	25.5-32.2	56.8 / 16	50	9	1186930000
A2L/50/M50-WM	M 50 x 1.5	37.5-44.1	58.3 / 16	65	6	1186950000
A2L/50S/M50-WM	M 50 x 1.5	31.5-38.2	59.3 / 16	60	6	1186940000
<b>inch NPT</b>						
A2L/16/NPT1/2-WM	1/2" NPT	4.5-8.7	51.8 / 13.6	24	24	1186990000
A2L/20/NPT1/2-WM	1/2" NPT	10-14	51.8 / 13.6	28	24	1187010000
A2L/20S/NPT1/2-WM	1/2" NPT	8-11.7	51.8 / 13.6	26	24	1187000000
A2L/25/NPT3/4-WM	3/4" NPT	13.5-20	53.8 / 13.9	36	12	1187020000
A2L/32/NPT1-WM	1" NPT	19.5-26.3	54.8 / 17.3	42	12	1187030000
A2L/40/NPT1-1/2-WM	1 1/2" NPT	25.5-32.2	56.8 / 18.4	50	9	1187150000
A2L/40/NPT1-1/4-WM	1 1/4" NPT	25.5-32.2	56.8 / 18	50	9	1187040000

- Note**
- All cable glands have a thread pitch of 1.5 mm.
  - In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
  - If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
  - The connection cable must be laid securely and inflexibly to rule out tensile stress.
  - Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: eshop.weidmueller.com.

## Ex-cable glands – Stainless steel – Ex e, Ex d, IP68 for non-armoured cables



Type A2LS cable glands are suitable for non-armoured cables and are approved for flameproof Ex d and Ex e explosion protection with increased safety.



## Technical data

Material	Stainless steel 1.4404
O-Ring / Seal insert	Silicone / Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

## Ordering data

Type	Thread	D1 outer cable Ø	L/L1	SW	Qty.	Order No.
<b>metric</b>						
A2LS/16/M16-WM	M 16 x 1.5	4.5-8.7	51.8 / 13.6	24	24	1185280000
A2LS/20/M20-WM	M 20 x 1.5	10-14	51.8 / 16	28	24	1185300000
A2LS/20S/M20-WM	M 20 x 1.5	8-11.7	51.8 / 16	26	24	1185290000
A2LS/25/M25-WM	M 25 x 1.5	13.5-20	53.8 / 16	36	12	1185310000
A2LS/32/M32-WM	M 32 x 1.5	19.5-26.3	54.8 / 16	42	12	1185320000
A2LS/40/M40-WM	M 40 x 1.5	25.5-32.2	56.8 / 16	50	9	1185330000
A2LS/50/M50-WM	M 50 x 1.5	37.5-44.1	58.3 / 16	65	6	1185350000
A2LS/50S/M50-WM	M 50 x 1.5	31.5-38.2	59.3 / 16	60	6	1185340000
<b>inch NPT</b>						
A2LS/16/NPT1/2-WM	1/2" NPT	4.5-8.7	51.8 / 13.6	24	24	1185390000
A2LS/20/NPT1/2-WM	1/2" NPT	10-14	51.8 / 13.6	28	24	1185410000
A2LS/20S/NPT1/2-WM	1/2" NPT	8-11.7	51.8 / 13.6	26	24	1185400000
A2LS/25/NPT3/4-WM	3/4" NPT	13.5-20	53.8 / 13.9	36	12	1185420000
A2LS/32/NPT1-WM	1" NPT	19.5-26.3	54.8 / 17.3	42	12	1185430000
A2LS/40/NPT1-1/2-WM	1 1/2" NPT	25.5-32.2	56.8 / 18.4	50	9	1185550000

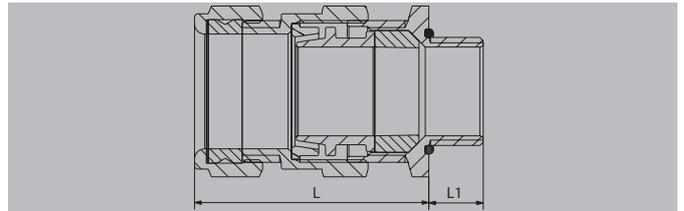
- Note**
- All cable glands have a thread pitch of 1.5 mm.
  - In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
  - If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
  - The connection cable must be laid securely and inflexibly to rule out tensile stress.
  - Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: [eshop.weidmuller.com](http://eshop.weidmuller.com).

## Ex-cable glands

## Ex-cable glands – Nickel-plated Brass – Ex e, Ex d, IP66 / IP68 for cables with single wire armouring - SWA



Type E1W cable glands are suitable for SWA steel wire armouring cables, type E1W glands receive flameproof Ex d and increased safety Ex e explosion protection. And the armouring provides an electrical connection between the cable armouring and the glands.



## Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Type of armouring	Single-wire armouring
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

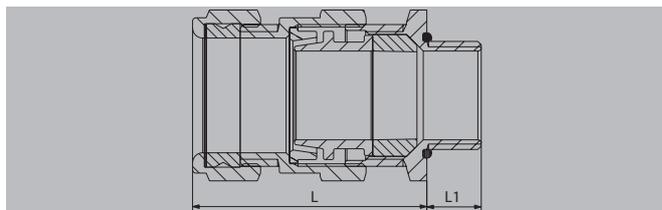
## Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	Qty.	Order No.
<b>metric</b>								
E1W/16/M16-WM	M 16 x 1.5	8-13.5	4.50-8.70	0.9-0.9	78 / 16	24	24	1184650000
E1W/20/M20-WM	M 20 x 1.5	15-21	10.00-14.00	0.9-1.25	78.5 / 16	30	24	1184680000
E1W/20S/M20-WM	M 20 x 1.5	12.5-16	8.00-11.70	0.9-1.25	78.5 / 16	26	24	1184670000
E1W/25/M25-WM	M 25 x 1.5	20-27.5	13.50-20.00	1.25-1.6	80 / 16	38	12	1184690000
E1W/32/M32-WM	M 32 x 1.5	26-34	19.50-26.30	1.6-2	83 / 16	46	12	1184700000
E1W/40/M40-WM	M 40 x 1.5	30.5-40.5	25.50-32.20	1.6-2	93.5 / 16	55	4	1184710000
E1W/50/M50-WM	M 50 x 1.5	45.5-53	37.50-44.10	2-2.5	92.5 / 16	65	4	1184730000
E1W/50S/M50-WM	M 50 x 1.5	38.5-46.5	31.50-38.20	2-2.5	93.5 / 16	60	4	1184720000
<b>inch NPT</b>								
E1W/16/NPT1/2-WM	1/2" NPT	8-13.5	4.50-8.70	0.9-0.9	78 / 13.6	24	24	1184770000
E1W/20/NPT1/2-WM	1/2" NPT	15-21	10.00-14.00	0.9-1.25	78.5 / 13.6	30	24	1184790000
E1W/20S/NPT1/2-WM	1/2" NPT	12.5-16	8.00-11.70	0.9-1.25	78.5 / 13.6	26	24	1184780000
E1W/25/NPT3/4-WM	3/4" NPT	20-27.5	13.50-20.00	1.25-1.6	80 / 13.9	38	12	1184800000
E1W/32/NPT1-WM	1" NPT	26-34	19.50-26.30	1.6-2	83 / 17.3	46	12	1184810000
E1W/40/NPT1-1/4-WM	1 1/4" NPT	30.5-40.5	25.50-32.20	1.6-2	93.5 / 18	55	4	1184820000
<b>Note</b>	<ul style="list-style-type: none"> <li>All cable glands have a thread pitch of 1.5 mm.</li> <li>In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>The connection cable must be laid securely and inflexibly to rule out tensile stress.</li> <li>Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://eshop.weidmuller.com">eshop.weidmuller.com</a>.</li> </ul>							

Ex-cable glands – Stainless steel – Ex e, Ex d, IP66 / IP68 for cables with single wire armouring - SWA



Type E1WS cable glands are suitable for SWA steel wire armouring cables, type E1W glands receive flameproof Ex d and increased safety Ex e explosion protection. And the armouring provides an electrical connection between the cable armouring and the glands.



Technical data

Material	Stainless steel 1.4404
Seal insert	Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Type of armouring	Single-wire armouring
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

Ordering data

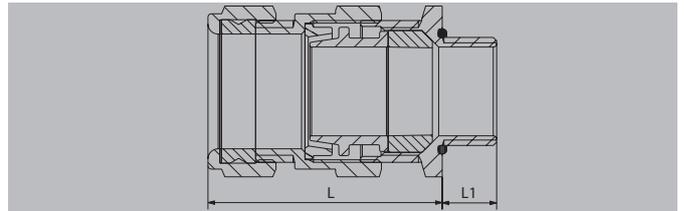
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	Qty.	Order No.
<b>metric</b>								
E1WS/16/M16-WM	M 16 x 1.5	8-13.5	4.50-8.70	0.9-0.9	78 / 16	24	24	1188840000
E1WS/20/M20-WM	M 20 x 1.5	15-21	10.00-14.00	0.9-1.25	78.5 / 16	30	24	1188860000
E1WS/20S/M20-WM	M 20 x 1.5	12.5-16	8.00-11.70	0.9-1.25	78.5 / 16	26	24	1188850000
E1WS/25/M25-WM	M 25 x 1.5	20-27.5	13.50-20.00	1.25-1.6	80 / 16	38	12	1188870000
E1WS/32/M32-WM	M 32 x 1.5	26-34	19.50-26.30	1.6-2	83 / 16	46	12	1188880000
E1WS/40/M40-WM	M 40 x 1.5	30.5-40.5	25.50-32.20	1.6-2	93.5 / 16	55	4	1188890000
E1WS/50/M50-WM	M 50 x 1.5	45.55-53	37.50-44.10	2-2.5	92.5 / 16	65	4	1188910000
E1WS/50S/M50-WM	M 50 x 1.5	38.5-46.5	31.50-38.20	2-2.5	93.5 / 16	60	4	1188900000
<b>inch NPT</b>								
E1WS/16/NPT1/2-WM	1/2" NPT	8-13.5	4.50-8.70	0.9-0.9	78 / 13.6	24	24	1188940000
E1WS/20/NPT1/2-WM	1/2" NPT	15-21	10.00-14.00	0.9-1.25	78.5 / 13.6	30	24	1188960000
E1WS/20S/NPT1/2-WM	1/2" NPT	12.5-16	8.00-11.70	0.9-1.25	78.5 / 13.6	26	24	1188950000
E1WS/25/NPT3/4-WM	3/4" NPT	20-27.5	13.50-20.00	1.25-1.6	80 / 13.9	38	12	1188970000
E1WS/32/NPT1-WM	1" NPT	26-34	19.50-26.30	1.6-2	83 / 17.3	46	12	1188980000
E1WS/40/NPT1-1/4-WM	1 1/4" NPT	30.5-40.5	25.50-32.20	1.6-2	93.5 / 18	55	4	1188990000
<b>Note</b>	<ul style="list-style-type: none"> <li>All cable glands have a thread pitch of 1.5 mm.</li> <li>In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>The connection cable must be laid securely and inflexibly to rule out tensile stress.</li> <li>Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://eshop.weidmuller.com">eshop.weidmuller.com</a>.</li> </ul>							

## Ex-cable glands

## Ex-cable glands – Nickel-plated Brass – Ex e, Ex d, IP66 / IP68 for cables with braided or foil armouring



Type E1XZ cable glands are suitable for SWB steel wire braiding or STA foil armouring, type E1XZ glands are given explosion protection Ex d and increased safety Ex e. The armouring provides an electrical connection between the cable armouring and the glands.



## Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Type of armouring	Braided armouring, Metal foil armouring
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

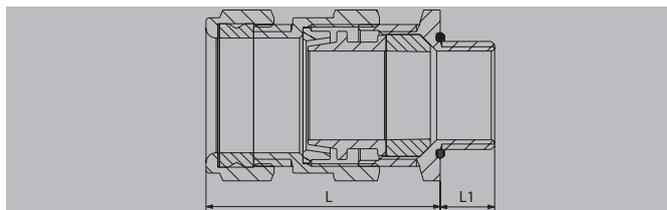
## Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	Qty.	Order No.
<b>metric</b>								
E1XZ/16/M16-WM	M 16 x 1.5	8-13.5	4.50-8.70	0.9-0.9	78 / 16	24	24	1184970000
E1XZ/20/M20-WM	M 20 x 1.5	15-21	10.00-14.00	0.9-1.25	78.5 / 16	30	24	1184990000
E1XZ/20S/M20-WM	M 20 x 1.5	12.5-16	8.00-11.70	0.9-1.25	78.5 / 16	26	24	1184980000
E1XZ/25/M25-WM	M 25 x 1.5	20-27.5	13.50-20.00	1.25-1.6	80 / 16	38	12	1185000000
E1XZ/32/M32-WM	M 32 x 1.5	26-34	19.50-26.30	1.6-2	83 / 16	46	12	1185010000
E1XZ/40/M40-WM	M 40 x 1.5	30.5-40.5	25.50-32.20	1.6-2	93.5 / 16	55	4	1185020000
E1XZ/50/M50-WM	M 50 x 1.5	45.5-53	37.50-44.10	2-2.5	92.5 / 16	65	4	1185040000
E1XZ/50S/M50-WM	M 50 x 1.5	38.5-46.5	31.50-38.20	2-2.5	93.5 / 16	60	4	1185030000
<b>inch NPT</b>								
E1XZ/16/NPT1/2-WM	1/2" NPT	8-13.5	4.50-8.70	0.9-0.9	78 / 13.6	24	24	1185080000
E1XZ/20/NPT1/2-WM	1/2" NPT	15-21	10.00-14.00	0.9-1.25	78.5 / 13.6	30	24	1185100000
E1XZ/20S/NPT1/2-WM	1/2" NPT	12.5-16	8.00-11.70	0.9-1.25	78.5 / 13.6	26	24	1185090000
E1XZ/25/NPT3/4-WM	3/4" NPT	20-27.5	13.50-20.00	1.25-1.6	80 / 13.9	38	12	1185110000
E1XZ/32/NPT1-WM	1" NPT	26-34	19.50-26.30	1.6-2	83 / 17.3	46	12	1185120000
E1XZ/40/NPT1-1/2-WM	1 1/2" NPT	30.5-40.5	25.50-32.20	1.6-2	93.5 / 18.4	55	4	1185240000
<b>Note</b>	<ul style="list-style-type: none"> <li>All cable glands have a thread pitch of 1.5 mm.</li> <li>In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>The connection cable must be laid securely and inflexibly to rule out tensile stress.</li> <li>Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://eshop.weidmuller.com">eshop.weidmuller.com</a>.</li> </ul>							

## Ex-cable glands – Stainless steel – Ex e, Ex d, IP66 / IP68 for armoured cables



Type E1XZS cable glands are suitable for SWB steel wire braiding or STA foil armouring, type E1XZ glands are given explosion protection Ex d and increased safety Ex e. The armouring provides an electrical connection between the cable armouring and the glands.



## Technical data

Material	Stainless steel 1.4404
Seal insert	Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Type of armouring	Braided armouring, Metal foil armouring
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

## Ordering data

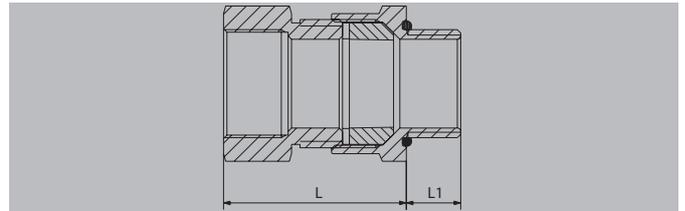
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	Qty.	Order No.
<b>metric</b>								
E1XZS/16/M16-WM	M 16 x 1.5	8-13.5	4.50-8.70	0.9-0.9	78 / 16	24	24	1188020000
E1XZS/20/M20-WM	M 20 x 1.5	15-21	10.00-14.00	0.9-1.25	78.5 / 16	30	24	1188040000
E1XZS/20S/M20-WM	M 20 x 1.5	12.5-16	8.00-11.70	0.9-1.25	78.5 / 16	26	24	1188030000
E1XZS/25/M25-WM	M 25 x 1.5	20-27.5	13.50-20.00	1.25-1.6	80 / 16	38	12	1188050000
E1XZS/32/M32-WM	M 32 x 1.5	26-34	19.50-26.30	1.6-2	83 / 16	46	12	1188060000
E1XZS/40/M40-WM	M 40 x 1.5	30.5-40.5	25.50-32.20	1.6-2	93.5 / 16	55	4	1188070000
E1XZS/50/M50-WM	M 50 x 1.5	45.55-53	37.50-44.10	2-2.5	92.5 / 16	65	4	1188090000
E1XZS/50S/M50-WM	M 50 x 1.5	38.5-46.5	31.50-38.20	2-2.5	93.5 / 16	60	4	1188080000
<b>inch NPT</b>								
E1XZS/16/NPT1/2-WM	1/2" NPT	8-13.5	4.50-8.70	0.9-0.9	78 / 13.6	24	24	1188120000
E1XZS/20/NPT1/2-WM	1/2" NPT	15-21	10.00-14.00	0.9-1.25	78.5 / 13.6	30	24	1188150000
E1XZS/20S/NPT1/2-WM	1/2" NPT	12.5-16	8.00-11.70	0.9-1.25	78.5 / 13.6	26	24	1188140000
E1XZS/25/NPT3/4-WM	3/4" NPT	20-27.5	13.50-20.00	1.25-1.6	80 / 13.9	38	12	1188160000
E1XZS/32/NPT1-WM	1" NPT	26-34	19.50-26.30	1.6-2	83 / 17.3	46	12	1188170000
E1XZS/40/NPT1-1/2-WM	1 1/2" NPT	30.5-40.5	25.50-32.20	1.6-2	93.5 / 18.4	55	4	1188280000
<b>Note</b>	<ul style="list-style-type: none"> <li>All cable glands have a thread pitch of 1.5 mm.</li> <li>In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>The connection cable must be laid securely and inflexibly to rule out tensile stress.</li> <li>Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: <a href="http://eshop.weidmuller.com">eshop.weidmuller.com</a>.</li> </ul>							

## Ex-cable glands

## Ex-cable glands – Nickel-plated Brass – Ex e, Ex d, IP66 / IP68 for non-armoured cables with raw thread connection



Cable glands type A2LC are suitable for non-armoured cables and have a conduit internal thread, maintaining explosion protection Ex d and increased safety Ex e.



## Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	Silicone / Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

## Ordering data

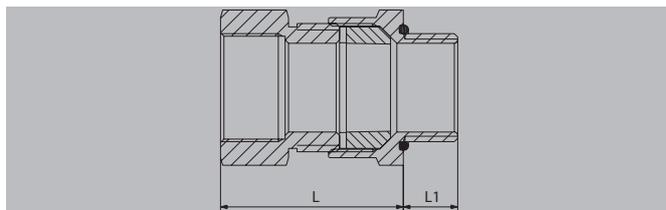
Type	Thread	Conduit thread size	KB	L/L1	SW	Qty.	Order No.
<b>metric to metric</b>							
A2LC/16/M16-M20F-WM	M 16 x 1.5	M20	4.5-8.7	69.8 / 16	24	24	1205080000
A2LC/20/M20-M20F-WM	M 20 x 1.5	M20	10-14	68.8 / 16	28	24	1205110000
A2LC/20S/M20-M20F-WM	M 20 x 1.5	M20	8-11.7	68.8 / 16	26	24	1205090000
A2LC/25/M25-M25F-WM	M 25 x 1.5	M25	13.5-20	69.8 / 16	36	12	1205120000
A2LC/32/M32-M32F-WM	M 32 x 1.5	M32	19.5-26.3	69.8 / 16	42	12	1205130000
A2LC/40/M40-M40F-WM	M 40 x 1.5	M40	25.5-32.2	71.8 / 16	50	9	1205140000
A2LC/50/M50-M50F-WM	M 50 x 1.5	M50	37.5-44.1	72.3 / 16	65	6	1205160000
A2LC/50S/M50-M50F-WM	M 50 x 1.5	M50	31.5-38.2	73.3 / 16	60	6	1205150000
<b>metric to inch NPT</b>							
A2LC/16/M16-NPT1/2F-WM	M 16 x 1.5	NPT 1/2"	4.5-8.7	69.8 / 16	24	24	1205190000
A2LC/20/M20-NPT1/2F-WM	M 20 x 1.5	NPT 1/2"	10-14	68.8 / 16	28	24	1205220000
A2LC/20S/M20-NPT1/2F-WM	M 20 x 1.5	NPT 1/2"	8-11.7	68.8 / 16	26	24	1205210000
A2LC/25/M25-NPT3/4F-WM	M 25 x 1.5	NPT 3/4"	13.5-20	69.8 / 16	36	12	1205230000
A2LC/32/M32-NPT1F-WM	M 32 x 1.5	NPT 1"	19.5-26.3	69.8 / 16	42	12	1205240000
A2LC/40/M40-NPT1-1/2F	M 40 x 1.5	NPT 1-1/2"	25.5-32.2	71.8 / 16	50	9	1205070000

- Note**
- All cable glands have a thread pitch of 1.5 mm.
  - In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
  - If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
  - The connection cable must be laid securely and inflexibly to rule out tensile stress.
  - Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: [eshop.weidmuller.com](http://eshop.weidmuller.com).

Ex-cable glands – Stainless steel – Ex e, Ex d, IP66 / IP68 for non-armoured cables with raw thread connection



Cable glands type A2LCS are suitable for non-armoured cables and have a conduit internal thread, maintaining explosion protection Ex d and increased safety Ex e.



Technical data

Material	Stainless steel 1.4404
O-ring / Seal insert	Silicone / Silicone
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Identification	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / CCC)	TÜV IT 16ATEX 059X / IECEx TPS 16.0004X / 2020322313000069
<b>Note</b>	Length "L" depends on the cable diameter used.

Ordering data

Type	Thread	Conduit thread size	KB	L/L1	SW	Qty.	Order No.
<b>metric to metric</b>							
A2LCS/16/M16-M20F-WM	M 16 x 1.5	M20	4.5-8.7	69.8 / 16	24	24	1187180000
A2LCS/20/M20-M20F-WM	M 20 x 1.5	M20	10-14	68.8 / 16	28	24	1187200000
A2LCS/20S/M20-M20F-WM	M 20 x 1.5	M20	8-11.7	68.8 / 16	26	24	1187190000
A2LCS/25/M25-M25F-WM	M 25 x 1.5	M25	13.5-20	69.8 / 16	36	12	1187210000
A2LCS/32/M32-M32F-WM	M 32 x 1.5	M32	19.5-26.3	69.8 / 16	42	12	1187220000
A2LCS/40/M40-M40F-WM	M 40 x 1.5	M40	25.5-32.2	71.8 / 16	50	9	1187230000
A2LCS/50/M50-M50F-WM	M 50 x 1.5	M50	37.5-44.1	72.3 / 16	65	6	1187250000
A2LCS/50S/M50-M50F-WM	M 50 x 1.5	M50	31.5-38.2	73.3 / 16	60	6	1187240000
<b>metric to inch NPT</b>							
A2LCS/16/M16-NPT1/2F-WM	M 16 x 1.5	NPT 1/2"	4.5-8.7	69.8 / 16	24	24	1187280000
A2LCS/20/M20-NPT1/2F-WM	M 20 x 1.5	NPT 1/2"	10-14	68.8 / 16	28	24	1187300000
A2LCS/20S/M20-NPT1/2F	M 20 x 1.5	NPT 1/2"	8-11.7	68.8 / 16	26	24	1187290000
A2LCS/25/M25-NPT3/4F-WM	M 25 x 1.5	NPT 3/4"	13.5-20	69.8 / 16	36	12	1187310000
A2LCS/32/M32-NPT1F-WM	M 32 x 1.5	NPT 1"	19.5-26.3	69.8 / 16	42	12	1187320000
A2LCS/40/M40-NPT1-1/4F	M 40 x 1.5	NPT 1-1/4"	25.5-32.2	71.8 / 16	50	9	1187330000

**Note**

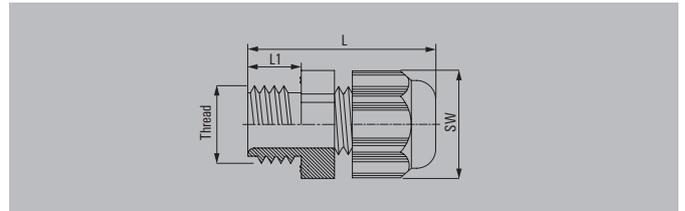
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.
- Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: [eshop.weidmuller.com](http://eshop.weidmuller.com).

## Ex-cable glands - Plastic

## Ex cable glands - Plastic - Ex e, Ex i, IP66 / IP68, 7J, -40°C - +70°C



Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with chloroprene seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



## Technical data

Material	Polyamide 6
Temperature range	-40 °C...70 °C
Seal insert	CR
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIC Db IP66/68
<b>Note</b>	Length "L" depends on the cable diameter used.

## Ordering data

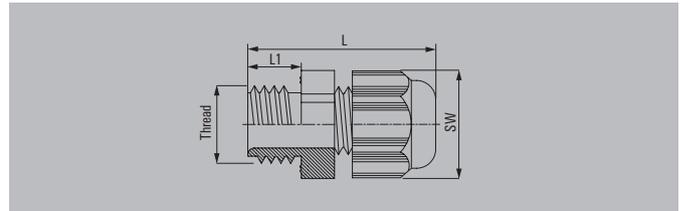
Type	Thread	KB	L/L1	SW	Qty.	Order No.
<b>Ex e, deep black</b>						
VG M12 EXE 4-6.5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2721930000
VG M16 EXE 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2721940000
VG M16 EXE 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2721950000
VG M20 EXE 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2721960000
VG M20 EXE 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2721970000
VG M20 EXE 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2721980000
VG M25 EXE 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2721990000
VG M25 EXE 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722000000
VG M32 EXE 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722010000
VG M32 EXE 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722020000
VG M40 EXE 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722030000
VG M40 EXE 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722040000
<b>Ex i, light blue, deep black</b>						
VG M12 EXI 4-6.5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2722210000
VG M16 EXI 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722220000
VG M16 EXI 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722230000
VG M20 EXI 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722240000
VG M20 EXI 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722250000
VG M20 EXI 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722260000
VG M25 EXI 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722270000
VG M25 EXI 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722280000
VG M32 EXI 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722290000
VG M32 EXI 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722300000
VG M40 EXI 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722310000
VG M40 EXI 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722320000

**Note** Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com)

## Ex cable glands – Plastic – Ex e, Ex i, IP66 / IP68, 7J, -60°C – +70°C



Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with silicone seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



## Technical data

Material	Polyamide 6
Temperature range	-60 °C...70 °C
Seal insert	Silicone
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIC Db IP66/68
<b>Note</b>	Length "L" depends on the cable diameter used.

## Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
<b>Ex e, deep black</b>						
VG M12 EXE 4-6.5 SI7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2722070000
VG M16 EXE 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722080000
VG M16 EXE 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722090000
VG M20 EXE 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722100000
VG M20 EXE 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722110000
VG M20 EXE 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722120000
VG M25 EXE 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722130000
VG M25 EXE 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722140000
VG M32 EXE 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722150000
VG M32 EXE 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722160000
VG M40 EXE 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722170000
VG M40 EXE 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722180000
<b>Ex i, light blue, deep black</b>						
VG M12 EXI 4-6.5 SI7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2722350000
VG M16 EXI 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722360000
VG M16 EXI 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722370000
VG M20 EXI 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722380000
VG M20 EXI 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722390000
VG M20 EXI 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722400000
VG M25 EXI 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722410000
VG M25 EXI 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722420000
VG M32 EXI 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722430000
VG M32 EXI 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722440000
VG M40 EXI 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722450000
VG M40 EXI 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722460000

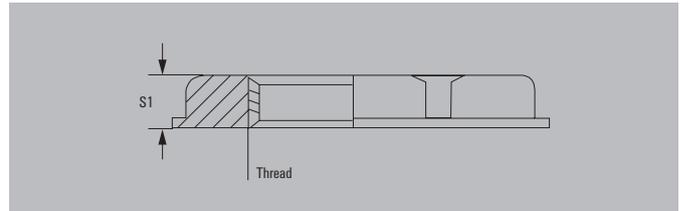
**Note** Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: [eshop.weidmuller.com](http://eshop.weidmuller.com)

## Accessories – Lock nuts

## Lock nuts – Plastic 7035



For fastening cable glands and accessories if no threaded hole is available. With circumferential collar to prevent damage to the substrate during installation.



## Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C...100 °C
Flammability rating	HB
<b>Note</b>	

## Ordering data

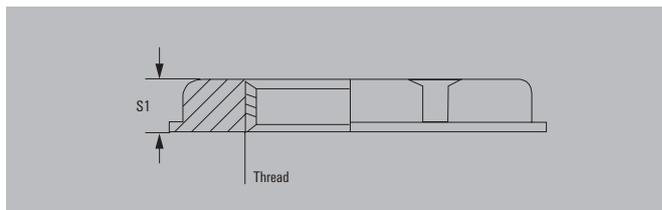
Type	Thread	S1	SW	Qty.	Order No.
<b>metric</b>					
SKMU M12 - K GR	M 12	5.00	18	100	1772440000
SKMU M16 - K GR	M 16	5.00	22	100	1772450000
SKMU M20 - K GR	M 20	6.00	26	100	1772460000
SKMU M25 - K GR	M 25	6.00	32	100	1772470000
SKMU M32 - K GR	M 32	7.00	41	100	1772480000
SKMU M40 - K GR	M 40	7.00	50	50	1772490000
SKMU M50 - K GR	M 50	8.00	60	10	1772500000
SKMU M63 - K GR	M 63	8.00	75	10	1772510000
<b>PG</b>					
SKMU PG7-K GR	PG 7	5.00	19	100	1697440000
SKMU PG9-K GR	PG 9	5.00	22	100	1697450000
SKMU PG11-K GR	PG 11	5.00	24	100	1697460000
SKMU PG 13,5-K GR	PG 13.5	6.00	27	100	1697470000
SKMU PG16-K GR	PG 16	6.00	30	100	1697480000
SKMU PG21-K GR	PG 21	7.00	36	100	1698220000
SKMU PG29-K GR	PG 29	7.00	46	50	1698230000
SKMU PG36-K GR	PG 36	8.00	60	25	1698240000
SKMU PG42-K GR	PG 42	8.00	65	25	1698250000
SKMU PG48-K GR	PG 48	8.00	70	25	1719090000

**Note** Further versions on request.

Lock nuts – Plastic 9005



Lock nuts with collar for preventing enclosure damage on installation. These are used to secure plastic cable glands and blanking plugs - recommended for Ex e and Ex i plastic cable glands.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Deep black / RAL 9005
Temperature range	-40 °C...100 °C
Flammability rating	HB
<b>Note</b>	Accessories for Ex cable glands are not subject to approval.

Ordering data

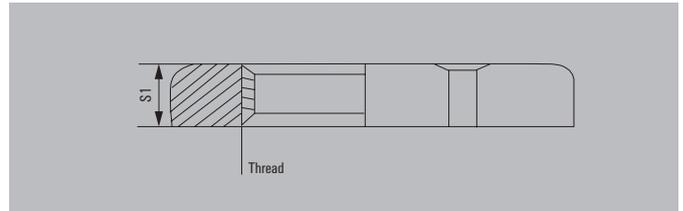
Type	Thread	S1	SW	Qty.	Order No.
<b>metric</b>					
SKMU M12 K SW	M 12	5.00	18	100	1806540000
SKMU M16 K SW	M 16	5.00	22	100	1736920000
SKMU M20 K SW	M 20	6.00	26	100	1736930000
SKMU M25 K SW	M 25	6.00	32	25	1736940000
SKMU M32 K SW	M 32	7.00	41	100	1736950000
SKMU M40 K SW	M 40	7.00	50	10	1736960000
<b>Note</b>	Further versions on request.				

## Accessories – Lock nuts

## Lock nuts – Brass – nickel-plated



For fastening cable glands and accessories if no threaded hole is available. Recommended when working with Ex applications.



## Technical data

Material	Brass, nickel-plated
Note	

## Ordering data

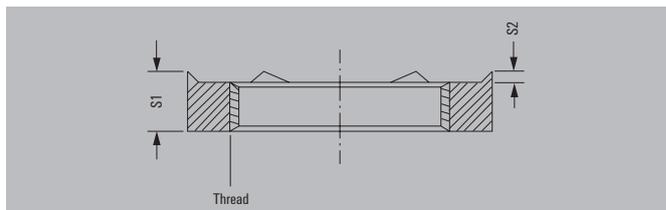
Type	Thread	S1	SW	Qty.	Order No.
<b>metric</b>					
SKMU M12 MS	M 12	2.8	15	100	1772360000
SKMU M16 MS	M 16	2.8	19	100	1736990000
SKMU M20 MS	M 20	3	24	100	1737000000
SKMU M25 MS	M 25	3.5	30	100	1737010000
SKMU M32 MS	M 32	4	36	100	1737020000
SKMU M40 MS	M 40	5	46	50	1737030000
SKMU M50 MS	M 50	5	57	25	1737040000
SKMU M63 MS	M 63	6	70	25	1737050000
<b>PG</b>					
SKMU PG7-MS	PG 7	2.8	15	100	1694070000
SKMU PG9-MS	PG 9	2.8	18	100	1694080000
SKMU PG11-MS	PG 11	3	21	100	1694090000
SKMU PG13,5-MS	PG 13,5	3	23	100	1694100000
SKMU PG16-MS	PG 16	3	26	100	1694110000
SKMU PG21-MS	PG 21	3.5	32	100	1719200000
SKMU PG29-MS	PG 29	4	41	50	1719210000
SKMU PG36-MS	PG 36	5	51	50	1719220000
SKMU PG42-MS	PG 42	5	60	25	1719230000
SKMU PG48-MS	PG 48	5.5	64	10	1719240000

Note Further versions on request.

Lock nuts – Brass – EMC



For fastening cable glands and accessories if no threaded hole is available. Specially equipped with 6 edges which contact the enclosure when the lock nut is tightened.



Technical data

Material	Brass, nickel-plated
Note	

Ordering data

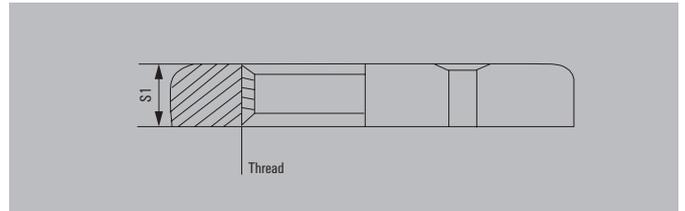
Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU EMV M12	M 12	3.6	15	100	1777610000
SKMU EMV M16	M 16	3.6	19	100	1777620000
SKMU EMV M20	M 20	3.6	24	100	1777630000
SKMU EMV M25	M 25	3.6	30	50	1777640000
SKMU EMV M32	M 32	4.1	36	50	1777650000
SKMU EMV M40	M 40	4.6	46	10	1777660000
SKMU EMV M50	M 50	4.6	60	10	1777670000
SKMU EMV M63	M 63	6.6	70	10	1777680000
Note	Further versions on request.				

## Accessories – Lock nuts

## Lock nuts – Stainless steel



For fastening cable glands and accessories if no threaded hole is available. Recommended for Ex applications.



## Technical data

Material	Stainless steel 1.4404
Note	

## Ordering data

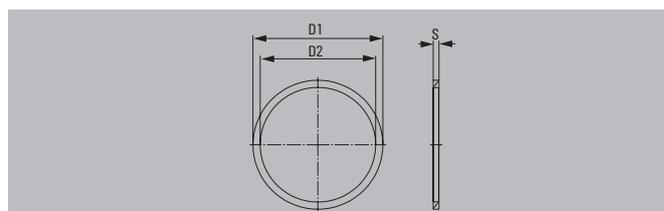
Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMUS M16-W	M 16	2.80	20	240	1185680000
SKMUS M20-W	M 20	3.00	24	240	1185690000
SKMUS M25-W	M 25	3.00	30	240	1185700000
SKMUS M32-W	M 32	4.00	38	144	1185710000
SKMUS M40-W	M 40	4.50	46	144	1185720000
SKMUS M50-W	M 50	5.00	60	30	1185730000
SKMUS M63-W	M 63	6.00	75	20	1185740000

Note

Flat IP washer – Standard – Polyethylene



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Polyethylene / Transparent
Temperature range	-30 °C...90 °C
<b>Note</b>	

Ordering data

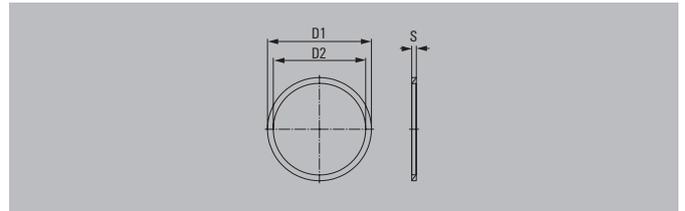
Type	Thread	D1	D2	S	Qty.	Order No.
<b>metric</b>						
GWDR M12-PO	M 12	16.00	12.00	2.00	50	1777920000
GWDR M16-PO	M 16	20.00	16.00	2.00	50	1777930000
GWDR M20-PO	M 20	24.00	20.00	2.00	100	1777940000
GWDR M25-PO	M 25	29.00	25.00	2.00	50	1777950000
GWDR M32-PO	M 32	36.00	32.00	2.00	50	1777960000
GWDR M40-PO	M 40	45.00	40.00	2.00	50	1777970000
GWDR M50-PO	M 50	56.00	50.00	2.00	50	1777980000
GWDR M63-PO	M 63	70.00	63.00	2.00	50	1777990000
<b>PG</b>						
GWDR PG7-PO	PG 7	16.50	12.50	2.00	100	1719440000
GWDR PG9-PO	PG 9	19.00	15.20	2.00	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	2.00	100	1719460000
GWDR PG13,5-PO	PG 13.5	25.00	20.40	2.00	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	2.00	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	3.00	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	3.00	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	3.00	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.00	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.00	5	1719530000

<b>Note</b>	Further versions on request.
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Flat IP washer – Standard – Neoprene



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Neoprene / Deep black
Temperature range	-40 °C...100 °C
Note	

Ordering data

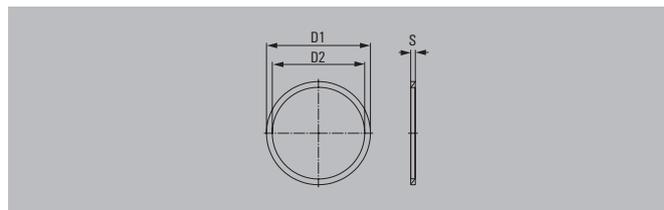
Type	Thread	D1	D2	S	Qty.	Order No.
<b>metric</b>						
GWDR M12-NP	M 12	18.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25	30.00	25.00	1.50	100	1736250000
GWDR M32-NP	M 32	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63	77.00	63.00	2.00	10	1736290000
<b>PG</b>						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	1719540000
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	1719550000
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	1719560000
GWDR PG13,5-NP	PG 13.5	27.00	19.50	1.20	100	1719570000
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	1719580000
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	1719590000
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	1719600000
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	1719610000
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	1719620000
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	1719630000

Note	Further versions on request.
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Flat IP washer – Standard – Nylon



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Nylon 6 / white / RAL 9010
Temperature range	-50 °C...120 °C
<b>Note</b>	

Ordering data

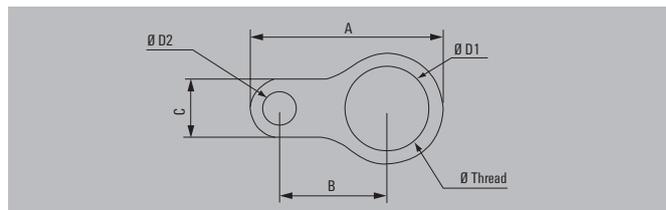
Type	Thread	D1	D2	S	Qty.	Order No.
<b>metric</b>						
GWDR M16-W	M 16	26	16.30	2.00	100	1185600000
GWDR M20-W	M 20	30	20.30	2.00	100	1185610000
GWDR M25-W	M 25	38	25.30	2.00	100	1185620000
GWDR M32-W	M 32	46	32.30	2.00	160	1185630000
GWDR M40-W	M 40	55	40.30	2.00	50	1185640000
GWDR M50-W	M 50	65	50.30	2.00	25	1185650000
GWDR M63-W	M 63	80	63.30	2.00	10	1185670000
<b>Note</b>						

## Accessories – Earthing rings

## Accessories – Earth tags – Brass



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



## Technical data

Material	Brass, nickel-plated
Note	

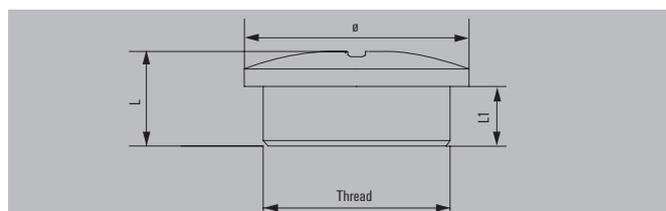
## Ordering data

Type	Thread	A	B	C	D1	D2	Qty.	Order No.
<b>metric, nickel-plated brass</b>								
EA-RING MS/M 16	M 16	48.75	30.00	13.00	24.5	6.75	20	1736480000
EA-RING MS/M 20	M 20	53.8	33.00	13.00	28.6	7.00	20	1736490000
EA-RING MS/M 25	M 25	61.5	36.00	17.00	34	10.50	20	1736500000
EA-RING MS/M 32	M 32	73	41.00	22.00	42	12.20	20	1736510000
EA-RING MS/M 40	M 40	86.5	44.50	30.00	54	13.50	10	1736520000
Note	Further versions on request.							

## Blanking plugs – Plastic



Plastic blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



## Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C...100 °C
Protection class	IP54
Flammability rating	V-2
<b>Note</b>	Optional sealing ring.

## Ordering data

Type	Thread	L	L1	Head Ø	Qty.	Order No.
<b>metric</b>						
VP M12 K54	M 12	5.5	6	15.00	100	1776930000
VP M16 K54	M 16	5.5	7	20.00	100	1776920000
VP M20 K54	M 20	6.5	7	24.00	100	1776910000
VP M25 K54	M 25	7	10	30.00	100	1776900000
VP M32 K54	M 32	7	11	37.00	50	1776940000
VP M40 K54	M 40	7	13	46.00	25	1776950000
VP M50 K54	M 50	8.5	14	56.00	10	1776960000
VP M63 K54	M 63	8.5	15	69.50	5	1776970000
<b>PG</b>						
VP 7-K54	PG 7	8	6	15.00	100	1719250000
VP 9-K54	PG 9	9.5	5	19.00	100	0294760000
VP 11-K54	PG 11	10	6.5	22.00	100	0294860000
VP 13,5-K54	PG 13,5	10	5	25.00	100	0294960000
VP 16-K54	PG 16	10	5	27.00	100	0295060000
VP 21-K54	PG 21	12	8	33.00	50	0295160000
VP 29-K54	PG 29	11.5	8	44.00	25	0501160000
VP 36-K54	PG 36	14	10	55.00	10	0501260000
VP 42-K54	PG 42	14	10	62.00	5	0501360000
VP 48-K54	PG 48	16	12	69.00	5	1719260000

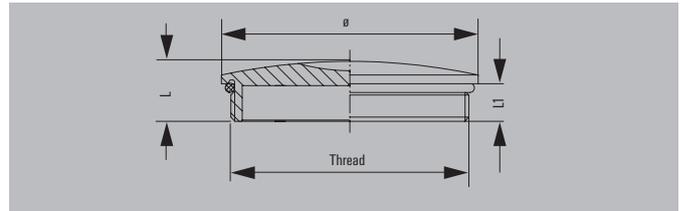
**Note** Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.

## Blanking plugs

## Blanking plugs – Brass – Nickel-plated



Brass blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



## Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection class	IP68 - 5 bar (30 min.)

## Note

## Ordering data

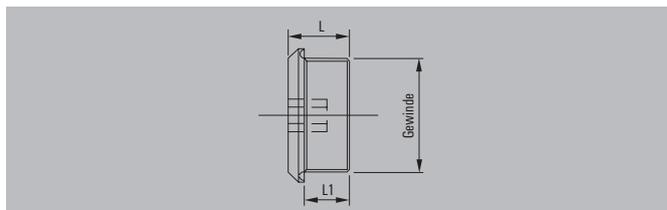
Type metric	Thread	L	L1	Head Ø	Qty.	Order No.
VP M12-MS65	M 12	7.5	5	14.00	100	1777720000
VP M16-MS65	M 16	8	5	18.00	100	1777730000
VP M20-MS65	M 20	9.5	6	22.00	100	1777740000
VP M25-MS65	M 25	11	7	28.00	100	1777750000
VP M32-MS65	M 32	12	8	35.00	50	1777760000
VP M40-MS65	M 40	13	8	44.00	50	1777770000
VP M50-MS65	M 50	15	9	54.00	25	1777780000
VP M63-MS65	M 63	16	10	67.00	10	1777790000

**Note** Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.

## Blanking plugs – Brass and Stainless steel – Ex e, Ex d, IP66 / IP68



The VP(S) series plugs provide a method of filling unused inlets in Ex equipment while maintaining flameproof Ex d and increased safety Ex e explosion protection and IP66/67/68 rating.



## Technical data

Material / Colour	Brass, nickel-plated / silver / RAL 7001
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Marking	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
<b>Note</b>	

## Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
<b>Nickel-plated brass</b>						
VP-HEX M16-EX W	M 16 x 1.5	20	16	23	24	1218940000
VP-HEX M20-EX W	M 20 x 1.5	20	16	27	24	1218950000
VP-HEX M25-EX W	M 25 x 1.5	21	16	33	16	1218960000
VP-HEX M32-EX W	M 32 x 1.5	21	16	40	12	1218970000
VP-HEX M40-EX W	M 40 x 1.5	22	16	50	9	1218980000
VP-HEX M50-EX W	M 50 x 1.5	22	16	60	6	1218990000
VP-HEX M63-EX W	M 63 x 1.5	22	16	75	4	1219010000
<b>Stainless steel, rust-proof</b>						
VPS-HEX M16-EX W	M 16 x 1.5	20	16	23	24	1219020000
VPS-HEX M20-EX W	M 20 x 1.5	20	16	27	24	1219030000
VPS-HEX M25-EX W	M 25 x 1.5	21	16	33	16	1219040000
VPS-HEX M32-EX W	M 32 x 1.5	21	16	40	12	1219050000
VPS-HEX M40-EX W	M 40 x 1.5	22	16	50	9	1219060000
VPS-HEX M50-EX W	M 50 x 1.5	22	16	60	6	1219070000
VPS-HEX M63-EX W	M 63 x 1.5	22	16	75	4	1219080000

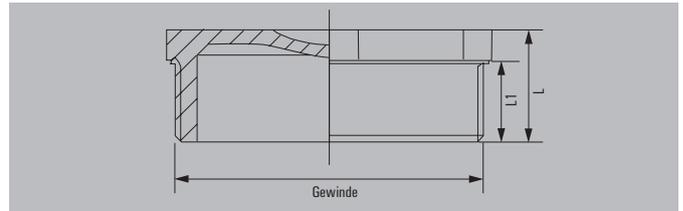
<b>Note</b>	
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## Ex-Blanking plugs

## Blanking plugs – Brass and Stainless steel – Ex e, Ex d, IP66 / IP68



The VP(S) series plugs provide a method of filling unused inlets in Ex equipment while maintaining flameproof Ex d and increased safety Ex e explosion protection and IP66/67/68 rating.



## Technical data

Material / Colour	Brass, nickel-plated / silver / RAL 7001
Operating temperature	-50 °C...120 °C
Protection class	IP66, IP68
Marking	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
<b>Note</b>	

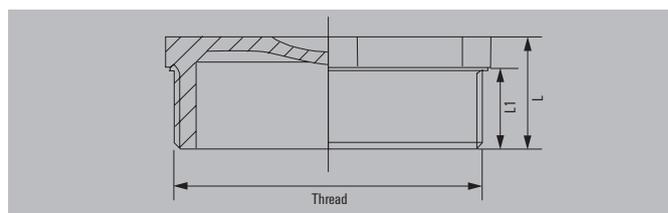
## Ordering data

Type	Thread	L	L1	Qty.	Order No.
<b>Nickel-plated brass</b>					
VP M16-EX W	M 16 x 1.5	21.5	16	24	1188470000
VP M20-EX W	M 20 x 1.5	21.5	16	24	1188480000
VP M25-EX W	M 25 x 1.5	21.5	16	16	1188490000
VP M32-EX W	M 32 x 1.5	21.5	16	12	1188500000
VP M40-EX W	M 40 x 1.5	21.5	16	12	1188510000
VP M50-EX W	M 50 x 1.5	21.5	16	6	1188520000
VP M63-EX W	M 63 x 1.5	21.5	16	40	1188530000
VP NPT3/4-EX W	3/4" NPT	16	16	24	1188550000
VP NPT1/2-EX W	1/2" NPT	15.5	15.5	24	1188540000
VP NPT1-EX W	1" NPT	19.5	19.5	16	1188560000
VP NPT1-1/4-EX W	1 1/4" NPT	20	20	12	1188570000
VP NPT1-1/2-EX W	1 1/2" NPT	20.5	20.5	12	1188580000
VP NPT2-EX W	2" NPT	21.5	21.5	6	1188590000
VP NPT2-1/2-EX W	2 1/2" NPT	31.5	31.5	40	1188600000
<b>Stainless steel, rust-proof</b>					
VPS M16-EX W	M 16 x 1.5	21.5	16	24	1188690000
VPS M20-EX W	M 20 x 1.5	21.5	16	24	1188700000
VPS M25-EX W	M 25 x 1.5	21.5	16	16	1188710000
VPS M32-EX W	M 32 x 1.5	21.5	16	12	1188720000
VPS M40-EX W	M 40 x 1.5	21.5	16	12	1188730000
VPS M50-EX W	M 50 x 1.5	21.5	16	6	1188740000
VPS M63-EX W	M 63 x 1.5	21.5	16	4	1188750000
VPS NPT1/2-EX W	1/2" NPT	15.5	15.5	24	1188760000
VPS NPT3/4-EX W	3/4" NPT	16	16	24	1188770000
VPS NPT1-EX W	1" NPT	19.5	19.5	16	1188780000
VPS NPT1-1/4-EX W	1 1/4" NPT	20	20	12	1188790000
VPS NPT1-1/2-EX W	1 1/2" NPT	20.5	20.5	12	1188800000
VPS NPT2-EX W	2" NPT	21.5	21.5	6	1188810000
VPS NPT2-1/2-EX W	2 1/2" NPT	31.5	31.5	4	1188820000
<b>Note</b>					

## Blanking plugs – Plastic – Ex e, IP66



For secure connection of unused screw-in threads or through-hole in enclosures. For Ex e applications with an impact resistance of 7 Joule in accordance with IEC 60079-0.



## Technical data

Material / Colour	Polyamide 6 / Deep black / RAL 9005
O-Ring	Silicone
Temperature range	-60 °C...70 °C
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC60079-0
Marking	Ex eb IIC Gb, Ex tb IIC Db IP66/68
<b>Note</b>	

## Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
VP M12 EX SI 7J	M 12	15	10	15	100	2066710000
VP M16 EX SI 7J	M 16	16.3	12	19	100	2066720000
VP M20 EX SI 7J	M 20	17	11	23	100	2066730000
VP M25 EX SI 7J	M 25	15.8	10	28	50	2066740000
VP M32 EX SI 7J	M 32	22.8	15	36	100	2066750000
VP M40 EX SI 7J	M 40	26.5	18	46	20	2066760000
VP M50 EX SI 7J	M 50	27.5	18	55	20	2066770000
VP M63 EX SI 7J	M 63	27.5	18	69	20	2066940000

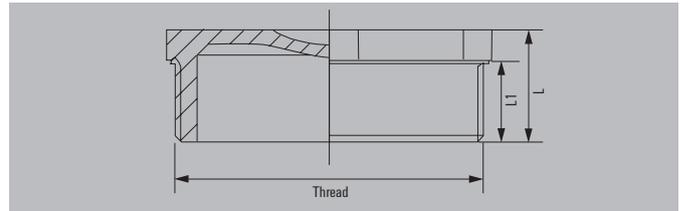
**Note** Installation specifications and tightening torques can be found in the installation instructions.  
For further information please use our online catalogue: [eshop.weidmuller.com](http://eshop.weidmuller.com).

## Ex-Blanking plugs

## Blanking plugs – Plastic – Ex e, IP66



For secure connection of unused screw-in threads or through-hole in enclosures. For Ex e applications with an impact resistance of 7 Joule in accordance with IEC 60079-0.



## Technical data

Material / Colour	Polyamide 6 / black / RAL 9011
Sealing	Chloroprene
Temperature range	-40 °C...70 °C
Protection class	IP66, IP68
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIC Db
<b>Note</b>	

## Ordering data

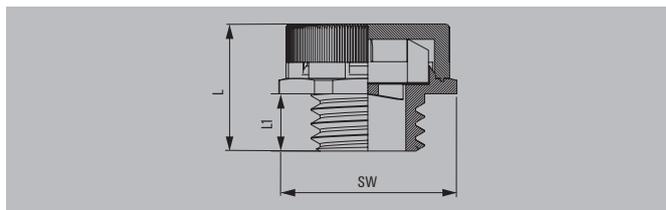
Type	Thread	L	L1	SW	Qty.	Order No.
<b>metric</b>						
VP M12/10 EX CR 7J BK	M 12	15	10	15	100	2978890000
VP M16/15 EX CR 7J BK	M 16	15	15	19	100	2978900000
VP M20/15 EX CR 7J BK	M 20	21	15	23	100	2978910000
VP M25/15 EX CR 7J BK	M 25	20.8	15	28	50	2978920000
VP M32/15 EX CR 7J BK	M 32	22.8	15	36	50	2978990000
VP M40/18 EX CR 7J BK	M 40	26.5	18	46	20	2978930000
VP M50/18 EX CR 7J BK	M 50	27.5	18	55	5	2978940000
VP M63/18 EX CR 7J BK	M 63	27.5	18	69	5	2978950000
<b>inch NPT</b>						
VP NPT 1 EX 7J BK	1" NPT	22.8	15	36	20	2978980000
VP NPT 1/2 EX 7J BK	1/2" NPT	21	15	23	20	2978960000
VP NPT 3/4 EX 7J BK	3/4" NPT	20.8	15	28	1	2978970000

**Note** Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: [eshop.weidmueller.com](http://eshop.weidmueller.com).

Compensation elements – Plastic – DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

Material / Colour	Polyamide 6 / Deep black / RAL 9005
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.8 l/min at 0.1 bar ΔP, up to 7.6 l/min at 1bar ΔP
Wasser inlet point	> 1.5 bar
UL 94 flammability rating	V-2
<b>Note</b>	

Ordering data

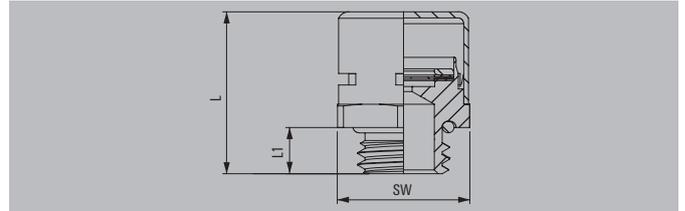
Type	Thread	L	L1	SW	Qty.	Order No.
metric						
DAE M12 PA LONG	M 12	17.4	10	17	10	1868570000
DAE M12 PA SHORT	M 12	13.4	6	17	10	1868560000
<b>Note</b>		Light grey version - RAL 7035 - on request.				

## Compensating elements

## Compensation elements – Stainless steel – DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



## Technical data

Material	Stainless steel 1.4305 (303)
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.4 l/min at 0.1 bar ΔP, up to 5.0 l/min at 1bar ΔP
Wasser inlet point	> 1.5 bar
<b>Note</b>	

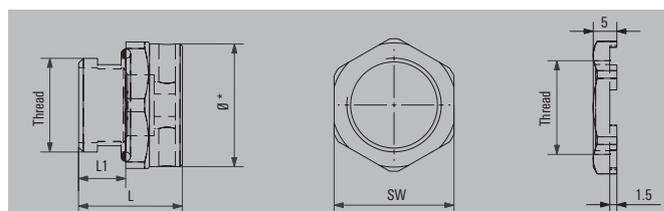
## Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
DAEM12 SS	M 12	21.1	10	17	10	1868550000
<b>Note</b>						

## Breather drains – Klippon® BDX



The BDX compensating element is used for ventilating the enclosure and preventing a buildup of moisture, particularly in Ex applications.



## Technical data

Material	Brass / Stainless steel 1.4404 (316L)
Protection class	IP66
Impact resistance	7 J ATEX version
Filter	Bronze insert (90% copper, 10% tin)
Air flow	0.25 l / 1 h
Sealing	Silicone / O-Ring
Temperature range	-60 °C...200 °C
Colour	Natural
<b>Note</b>	

## Ordering data

Type	Material	Thread	L / L1	SW	*Diameter	Qty.	Order No.
KLIPPON BDX M20 B	Brass	M 20	22 / 10	27	26.20	1	2519520000
KLIPPON BDX M20 S	Stainless steel 1.4404 (316L)	M 20	22 / 10	27	26.20	1	2519550000
KLIPPON BDX M20X15 S	Stainless steel 1.4404 (316L)	M 20	22 / 15	27	26.20	1	2519570000
KLIPPON BDX M25 S	Stainless steel 1.4404 (316L)	M 25	22 / 10	32	31.00	1	2519590000

<b>Note</b>	<ul style="list-style-type: none"> <li>The breather-drain is only to be fitted on the bottom side of the enclosure, aligned vertically with the thread upwards, and at the lowest point to permit proper drainage.</li> <li>The water flow rate has been tested by a water filled empty enclosure (no pressure or heat producing internal components). The water flow rate can slightly differ by influences from operational parameter and environmental conditions.</li> <li>Installation specifications and torques can be found in the installation instructions.</li> <li>For further information please use our online catalogue: <a href="http://eshop.weidmuller.com">eshop.weidmuller.com</a>.</li> </ul>
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## Adapter

### Adapter with NPT male threads – Brass, nickel-plated



The ADAP series adapters offer flexibility and versatility in re-using existing entries in Ex equipment, while flameproof Ex d and increased safety Ex e explosion protection and IP66/67/68 protection.

### Technical data

Material	Brass, nickel-plated
Operating temperature	-50 °C...120 °C
Protection class	IP66
Marking	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

### Ordering data

External thread	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT
Inner thread	Order No.					
M16	1263150000					
M20	1263170000	1263180000				
M25		1263190000	1263200000			
M32			1263210000	1263220000		
M40				1263230000	1263240000	
M50					1263250000	1263270000

#### Note

## Adapter with metric male threads – Brass, nickel-plated



The ADAP series adapters offer flexibility and versatility in re-using existing entries in Ex equipment, while flameproof Ex d and increased safety Ex e explosion protection and IP66/67/68 protection.

### Technical data

Material	Brass, nickel-plated
Operating temperature	-50 °C...120 °C
Protection class	IP66
Marking	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

### Ordering data

External thread	M20	M16	M25	M32	M40	M50
Inner thread	Order No.					
M16	1262740000					
M20		1262730000	1262760000			
M25	1262750000			1262780000		
M32			1262770000		1262800000	
M40				1262790000		1262830000
M50					1262810000	
1/2" NPT	1262860000	1262840000	1262880000			
3/4" NPT	1262870000	1262850000	1262890000	1262910000		
1" NPT			1262900000	1262930000	1262960000	
1 1/4" NPT				1262940000	1262970000	1263000000
1 1/2" NPT				1262950000	1262980000	1263010000
2" NPT					1262990000	1263030000
Note						

## Adapter

## Adapter with metric male threads - Stainless steel



The ADAP(S) series adapters offer flexibility and versatility in re-using existing entries in Ex equipment, while flameproof Ex d and increased safety Ex e explosion protection and IP66/67/68 protection.

## Technical data

Material	Stainless steel 1.4404
Operating temperature	-50 °C...120 °C
Protection class	IP66
Marking	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

## Ordering data

External thread	M20	M16	M25	M32	M40	M50
Inner thread	Order No.					
M16	1261920000					
M20		1261910000	1261940000			
M25	1261930000			1261960000		
M32			1261950000		1261980000	
M40				1261970000		1262010000
M50						1261990000
1/2" NPT	1262040000	1262020000				
3/4" NPT	1262050000	1262030000	1262070000			
1" NPT				1262100000		
1 1/2" NPT					1262150000	

## Note

# Cable entry system

<b>Cable entry system</b>	Cable Management – Cable Entry System – Cabtite	F.2
	Cable grommets	F.8
	Cable entry frames	F.9
	Divisible cable gland and accessories	F.13
	Cable Entry Plates	F.16

# Flexible and safe insertion of pre-assembled cables

## Cabtite – the modular system cable entry system

Managing facility cabling requirements is challenging for many manufacturing facilities, especially when the cables run through cabinet or enclosure walls. Our flexible modular cable entry system speeds up installation, facilitates service, and minimizes downtime, providing the lowest possible installed cost.

With the Cabtite cable entry system, maximal flexibility and time savings in cable management can be achieved. Assembled and unassembled cables in control cabinets, enclosures and machines are securely sealed and protected against tensile stress. The modular design consisting of a frame or cable gland, snap-in inlays and sealing elements allows quick configuration of cable entry cut-outs – without tools and with reliable sealing in IP66 according to DIN EN 60529.

### Your special advantages:

- Up to 50% more space and time saved thanks to greater flexibility
- High IP protection class (IP66) as well NEMA 4x and 12
- Integrated strain relief acc. to DIN EN 62444
- Installation safety through simple handling with acoustic feedback
- Preservation of the manufacturer's guarantee for pre-assembled cables
- Fast adaptation of cable management in the event of system changes, service and maintenance cases
- Up to 30% cost savings compared to conventional cable glands



### Handling-Video:

Cabtite Cable Entry System  
Frame Solution  
[www.weidmueller.com/handling-cabtite-fs](http://www.weidmueller.com/handling-cabtite-fs)



You can find this product family  
in our Weidmüller Configurator:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)



### Handling-Video:

Handling – Cabtite Cable Entry System separable  
retrofit Cable Gland Solution  
[www.weidmueller.com/handling-cabtite-cgs](http://www.weidmueller.com/handling-cabtite-cgs)



Please use our website for further product  
information:  
[www.weidmueller.com/cabtite](http://www.weidmueller.com/cabtite)



F



#### Individual assembly

Whether with frames or with separable cable glands with inlay and sealing elements: the basic modular components guarantee maximal flexibility and a wide range of variants.



#### High reliability

One click informs the user about the correct installation and guarantees error-free operation. The foamed-in seals guarantee high IP and NEMA protection.



#### No loss of warranty

Due to the cut-in sealing elements, the cables and wires are precisely encased. Existing connectors do not have to be dismantled – and the manufacturer's warranty is maintained.

## Maximum flexibility thanks to modular system Cabtite FR – our original frame design with assembly from the inside of the frame

The Cabtite cable entry system offers lowest installed cost and maximum flexibility for management of cable entry into cabinets, enclosures and machinery. Cabtite frames reduce material costs, save time and space while providing secure sealing and strain relief for pre-assembled and non-assembled cables.

Cabtite's modular design consisting of a frame or separable cable gland, snap-in inlays and sealing elements enables rapid configuration of cable entry openings for pre-assembled cables – without the use of tools and with a reliable IP66 seal according to DIN EN 60529. Even in tight spaces Cabtite frames can be used to seal cables from the inside of the enclosure or from the outside.

### F

#### Frame. Snap-in inlay. Sealing elements.

Three basic modular components guarantee maximal flexibility, variability and variety.



#### Handling-Video

Cabtite Frame Solution  
[www.weidmueller.com/handling-cabtite-fs](http://www.weidmueller.com/handling-cabtite-fs)



#### Handling-Video

Cabtite Cable Gland Solution  
[www.weidmueller.com/handling-cabtite-cgs](http://www.weidmueller.com/handling-cabtite-cgs)

## The basic components in the modular system



### Frame

The frame, fabricated from a single piece, is quick and easy to assemble and consists of dimensionally stable, fiberglass reinforced plastic. The integral gaskets guarantee effective IP66 sealing in accordance with DIN EN 60529, even on painted and rough surfaces.



### Inlays

The snap-in with a "click" inlays allow the frame openings to be configured as required for use with small or large sealing elements. An audible "click" when installing the sealing elements confirms.



### Sealing elements

The conical shape of the sealing elements enables them to be pressed in easily and perfectly every time. The seal inserts combined with the frames ensure an IP66 degree of protection and provides strain relief in accordance with DIN EN 62444. As a result of its slotted design with wave cut, it is especially suitable for pre-assembled cables.



### Separable cable glands

The separable cable glands are suitable for cable diameters M20 thru M63. If moves, adds or changes are required this can be accomplished quickly and easily – no tools required!

## Even more flexibility thanks to new frame solution

### Cabtite FRFT – FrontTight-Installation from the outside of the enclosure

Our proven modular system Cabtite is now complemented by a new, innovative frame solution:

Cabtite FrontTight. With FrontTight, pre-assembled and non-pre-assembled cables and wires can now be installed or retrofitted from the front or outside of the enclosure. Just like Cabtite FR, a secure IP66 seal and protection against tensile stresses are provided. A small wall cut-out in the enclosure is all that is needed: Now you are free to choose which frame is most suitable for your application.

With four frame sizes, FrontTight offers maximum flexibility and adaptability. The snap-in inlays and sealing elements that are part of the Cabtite system can be used for both the standard frame and the new FrontTight frame.

#### Your special advantages:

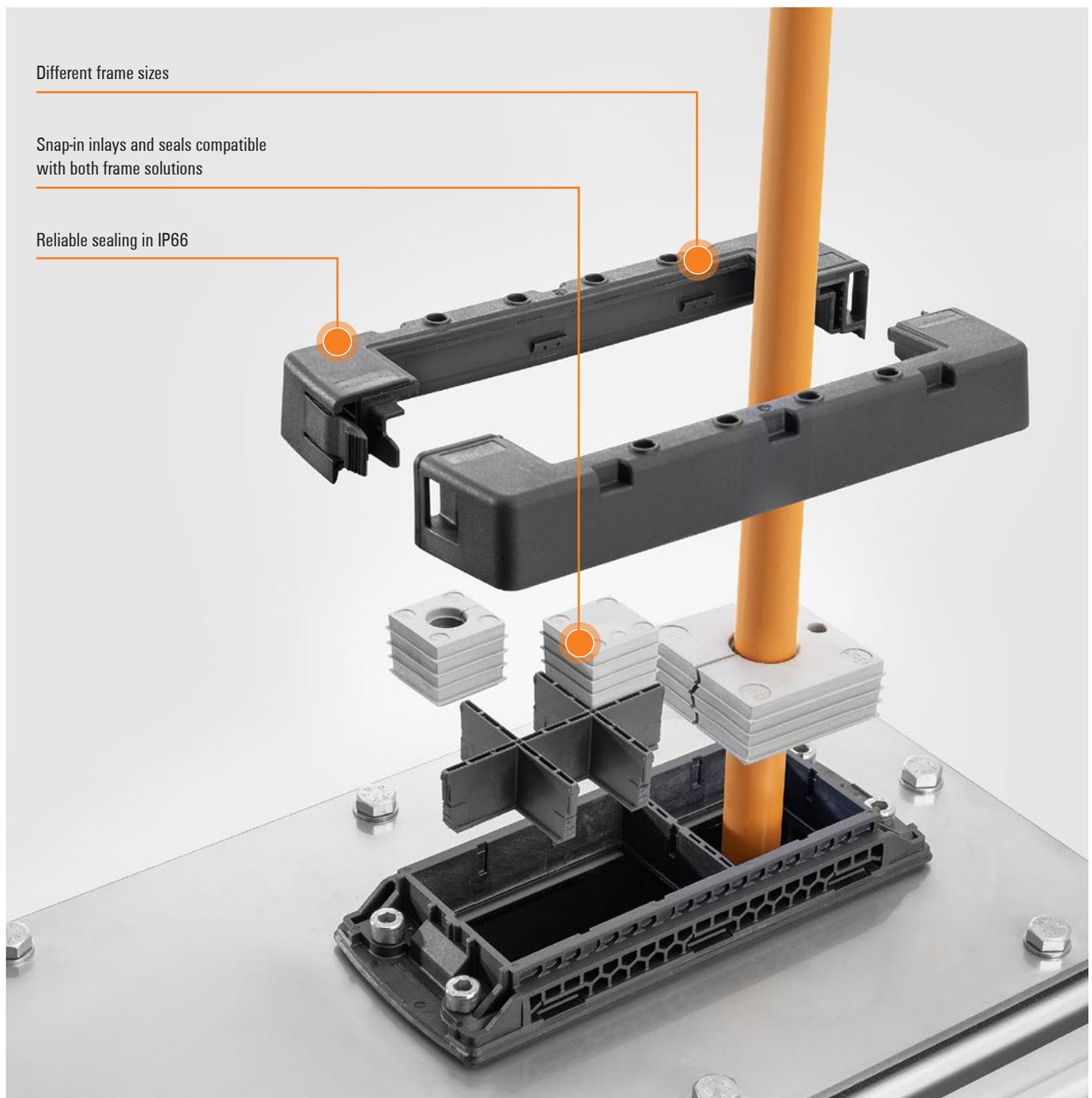
- Accommodates up to 40 individual cables in a single frame
- Open frame architecture maximizes flexibility and simplifies design and implementation
- Fast & Easy installation – installing components and cables from the front/outside. Easy retrofits
- Compatible seals and snap-in inlays for both frame solutions
- IP66 ingress protection rating according to DIN EN 60529, as well NEMA 4x and 12
- No tools needed for installation
- Reliable protection provided by integral gaskets and captive sealing elements



#### Handling-Video:

Cabtite FrontTight  
[www.weidmueller.com/handling-cabtite-fronttight](http://www.weidmueller.com/handling-cabtite-fronttight)

## Cabtite FrontTight Installation



F

## Cable grommets

### Cabtite SE - Sealing element small



Cable grommets for ASI cables

The Cabtite SE sealing elements are used in the frame or in the separable cable gland. The conical design allows easy installation, reliably seals gaps and provides strain relief in accordance with DIN EN 62444. For installation, the sealing elements are pressed into the snap-in inlays previously fitted in the frame or, in the case of the divisible cable gland, are placed between the cable gland half-shells. Various sealing elements with different cable diameters and geometries are available.

#### Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Light Grey: -40 °C; Deep black: -40 °C
Operating temperature, max.	Light Grey: 90 °C; Deep black: 120 °C
UL 94 flammability rating	Light Grey: V-0; Deep black: HB
<b>Note</b>	

#### Ordering data

Type	Clamping range	Qty.	Deep black Order No.	Light Grey Order No.
<b>Individual sealing elements</b>				
CABTITE SE 1.5-2 SML	1.5...2 mm	10	2584780000	2583360000
CABTITE SE 2-3 SML	2...3 mm	10	2584760000	2583380000
CABTITE SE 3-4 SML	3...4 mm	10	2584730000	2583400000
CABTITE SE 4-5 SML	4...5 mm	10	2584680000	2583440000
CABTITE SE 5-6 SML	5...6 mm	10	2584710000	2583450000
CABTITE SE 6-7 SML	6...7 mm	10	2584690000	2583460000
CABTITE SE 7-8 SML	7...8 mm	10	2584670000	2584660000
CABTITE SE 8-9 SML	8...9 mm	10	2584330000	2584650000
CABTITE SE 9-10 SML	9...10 mm	10	2584080000	2584630000
CABTITE SE 10-11 SML	10...11 mm	10	2584060000	2584610000
CABTITE SE 11-12 SML	11...12 mm	10	2584040000	2584600000
CABTITE SE 12-13 SML	12...13 mm	10	2584020000	2584590000
CABTITE SE 13-14 SML	13...14 mm	10	2584000000	2584570000
CABTITE SE 14-15 SML	14...15 mm	10	2583980000	2584560000
CABTITE SE 15-16 SML	15...16 mm	10	2583960000	2584550000
<b>Special geometry ASI</b>				
CABTITE SE 1/ASI SML		10	2583530000	2584810000
CABTITE SE 2/ASI SML		10	2583520000	2584800000
<b>Multiple sealing element</b>				
CABTITE SE 2/4-5 SML	4...5 mm	10	2583620000	2584900000
CABTITE SE 2/5-6 SML	5...6 mm	10	2583610000	2584890000
CABTITE SE 2/7 SML	7...8 mm	10	2583550000	2584830000
CABTITE SE 2/8 SML	8...9 mm	10	2583540000	2584820000
CABTITE SE 3/5-6 SML	5...6 mm	10	2652280000	2652290000
CABTITE SE 4/2-3 SML	2...3 mm	10	2583590000	2584870000
CABTITE SE 4/3-4 SML	3...4 mm	10	2583580000	2584860000
CABTITE SE 4/4-5 SML	4...5 mm	10	2583560000	2584840000
<b>Cone sealing element</b>				
CABTITE CSE 2-11 SML	2...11 mm	10	2583510000	
<b>Blind plugs</b>				
CABTITE BSE SML		10	2584790000	2583350000
<b>Note</b>				

### Cabtite SE - sealing elements large



Blanking plugs

Cone sealing element

The Cabtite SE sealing elements in large design are identical in construction to those in small design. However, they can accommodate cables with a larger outer diameter.

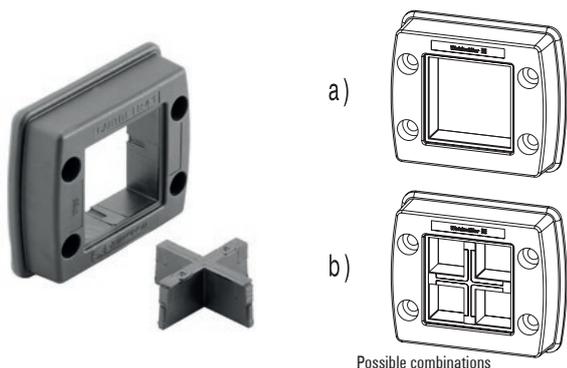
#### Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Deep black: -40 °C; Light Grey: -40 °C
Operating temperature, max.	Deep black: 120 °C; Light Grey: 90 °C
UL 94 flammability rating	Deep black: HB; Light Grey: V-0
<b>Note</b>	

#### Ordering data

Type	Clamping range	Qty.	Deep black Order No.	Light Grey Order No.
<b>Individual sealing elements</b>				
CABTITE SE 14-15 LRG	14...15 mm	10	2583880000	2584510000
CABTITE SE 15-16 LRG	15...16 mm	10	2583860000	2584500000
CABTITE SE 16-17 LRG	16...17 mm	10	2583850000	2584490000
CABTITE SE 17-18 LRG	17...18 mm	10	2583840000	2584480000
CABTITE SE 18-19 LRG	18...19 mm	10	2583830000	2584470000
CABTITE SE 19-20 LRG	19...20 mm	10	2583810000	2584460000
CABTITE SE 20-21 LRG	20...21 mm	10	2583790000	2584450000
CABTITE SE 21-22 LRG	21...22 mm	10	2583770000	2584440000
CABTITE SE 22-23 LRG	22...23 mm	10	2583750000	2584430000
CABTITE SE 23-24 LRG	23...24 mm	10	2583730000	2584420000
CABTITE SE 24-25 LRG	24...25 mm	10	2583710000	2584410000
CABTITE SE 25-26 LRG	25...26 mm	10	2583700000	2584400000
CABTITE SE 26-27 LRG	26...27 mm	10	2583690000	2584390000
CABTITE SE 27-28 LRG	27...28 mm	10	2583680000	2584370000
CABTITE SE 28-29 LRG	28...29 mm	10	2583670000	2584350000
CABTITE SE 29-30 LRG	29...30 mm	10	2583660000	2584380000
CABTITE SE 30-31 LRG	30...31 mm	10	2583650000	2584360000
CABTITE SE 31-32 LRG	31...32 mm	10	2583640000	2584340000
CABTITE SE 32-33 LRG	32...33 mm	10	2583630000	2584920000
CABTITE SE 33-34 LRG	33...34 mm	10	2595510000	2584910000
CABTITE SE 34-35 LRG	34...35 mm	10	2595520000	2595530000
<b>Cone sealing element</b>				
CABTITE CSE 7-24 LRG	7...24 mm	10	2583500000	
<b>Blind plugs</b>				
CABTITE BSE LRG		10	2583900000	2584520000
<b>Note</b>				

**Cabtite FR - CABTITE FR 4-1 BK SET**



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

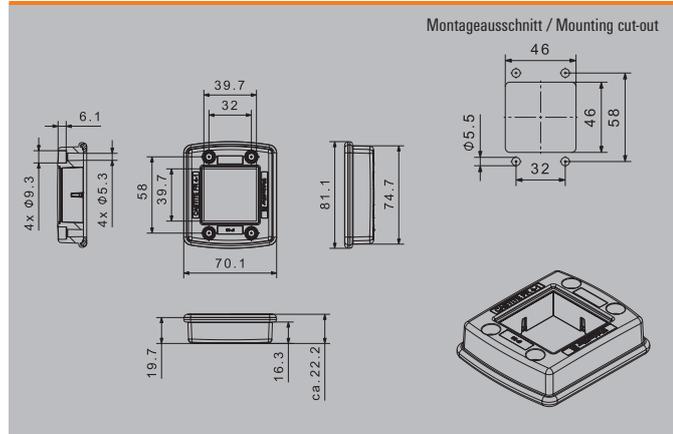
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FR 4-1 BK SET	1	2583780000
<b>Single frame (without snap-in inlay)</b>		
CABTITE FR 4-1 BK	1	2583490000
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

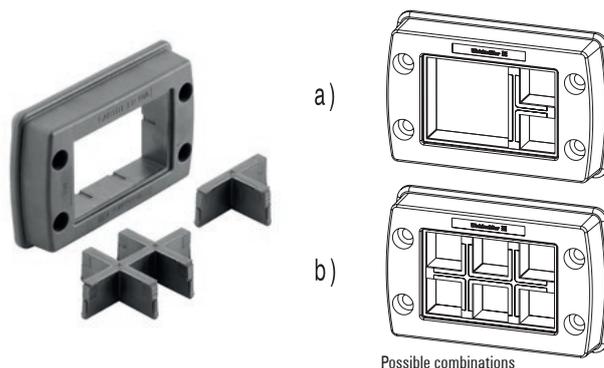
**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 4-1 BK	10	2584260000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
<b>Note</b>			

**Dimensioned drawing**



**Cabtite FR - CABTITE FR 10/6 BK SET**



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

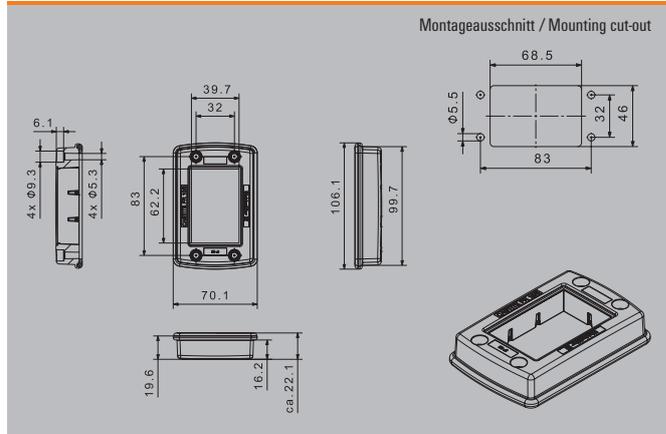
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FR 10/6 BK SET	1	2583760000
<b>Single frame (without snap-in inlay)</b>		
CABTITE FR 10/6 BK	1	2583480000
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

**Accessories**

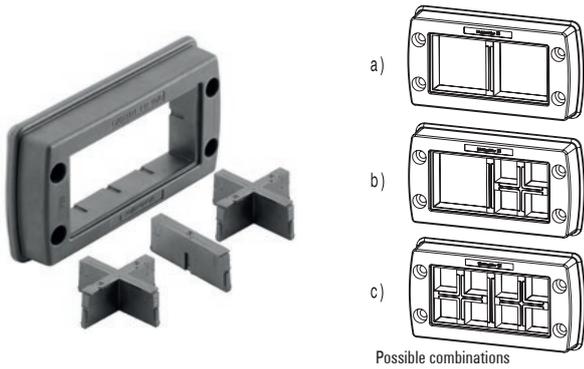
Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 10/6 BK	10	2584240000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
<b>Note</b>			

**Dimensioned drawing**



Cable entry frames

**Cabtite FR - CABTITE FR 16/8 BK SET**



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

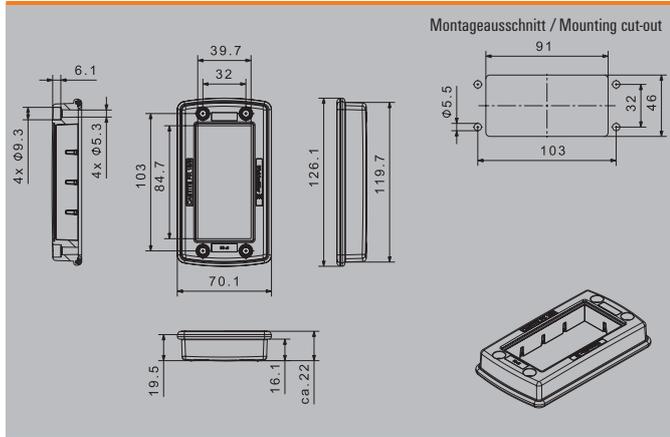
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FR 16/8 BK SET	1	2583740000
<b>Single frame (without snap-in inlay)</b>		
CABTITE FR 16/8 BK	1	2583470000
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

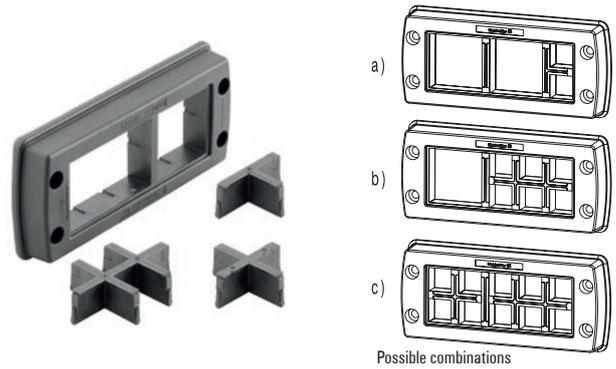
**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 16/8 BK	10	2584220000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
<b>Note</b>			

**Dimensioned drawing**



**Cabtite FR - CABTITE FR 24/10 BK SET**



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

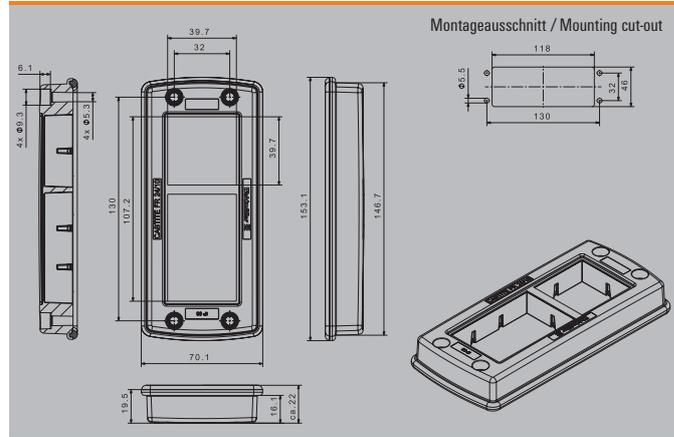
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FR 24/10 BK SET	1	2583720000
<b>Single frame (without snap-in inlay)</b>		
CABTITE FR 24/10 BK	1	2583800000
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

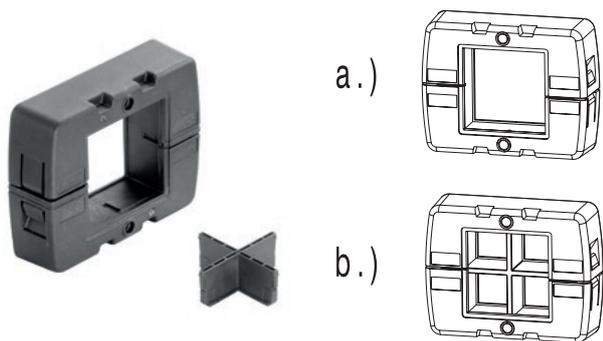
**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 24/10 BK	10	2584210000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
<b>Note</b>			

**Dimensioned drawing**



**Cabtite FT - CABTITE FRFT 4-1 SET**



Possible combinations

The frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble, the sealing elements are mounted from the outside. The captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

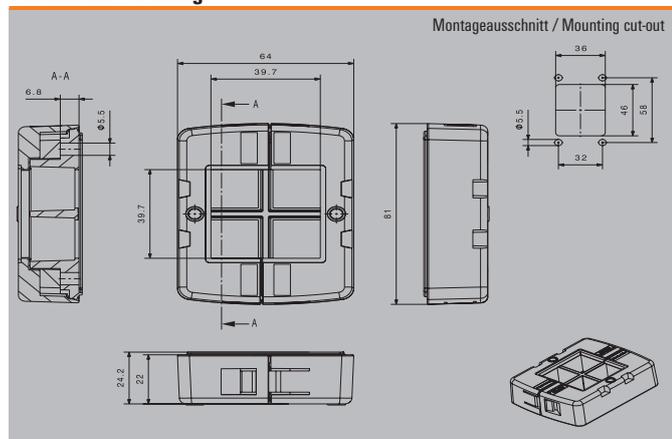
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FRFT 4-1 SET	1	<b>2891470000</b>
<b>Single frame (without snap-in inlay)</b>		
CABTITE FRFT 4-1	1	<b>2891450000</b>
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

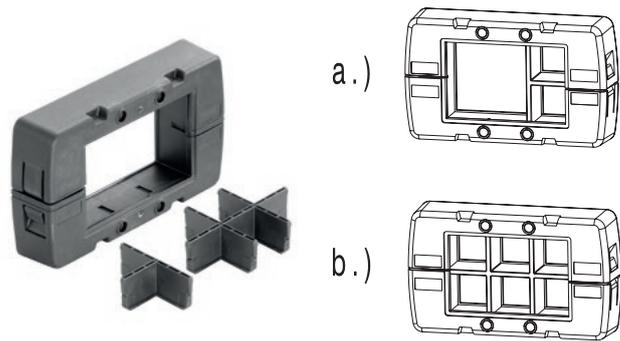
**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (outside)	CABTITE OFRL BK	20	<b>2907560000</b>
Operating tool	CABTITE TOOL ATSE PA	1	<b>2637360000</b>
Mounting screw set	CABTITE SC M5X25 SET	1	<b>2635120000</b>
<b>Note</b>			

**Dimensioned drawing**



**Cabtite FT - CABTITE FRFT 10/6 SET**



Possible combinations

The frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble, the sealing elements are mounted from the outside. The captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

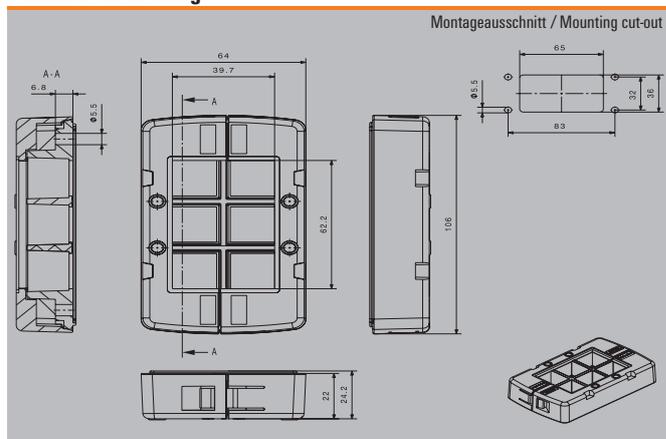
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FRFT 10/6 SET	1	<b>2891500000</b>
<b>Single frame (without snap-in inlay)</b>		
CABTITE FRFT 10/6	1	<b>2891480000</b>
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

**Accessories**

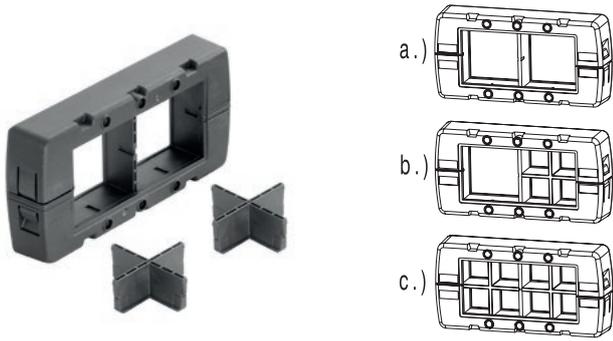
Product type	Type	Qty.	Order No.
Locking frame (outside)	CABTITE OFRL BK	20	<b>2907560000</b>
Operating tool	CABTITE TOOL ATSE PA	1	<b>2637360000</b>
Mounting screw set	CABTITE SC M5X25 SET	1	<b>2635120000</b>
<b>Note</b>			

**Dimensioned drawing**



Cable entry frames

**Cabtime FT - CABTITE FRFT 16/8 SET**



Possible combinations

The frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble, the sealing elements are mounted from the outside. The captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

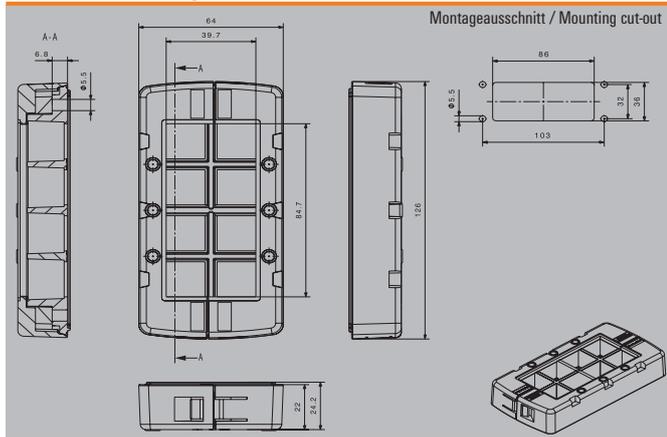
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FRFT 16/8 SET	1	<b>2891530000</b>
<b>Single frame (without snap-in inlay)</b>		
CABTITE FRFT 16/8	1	<b>2891510000</b>
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

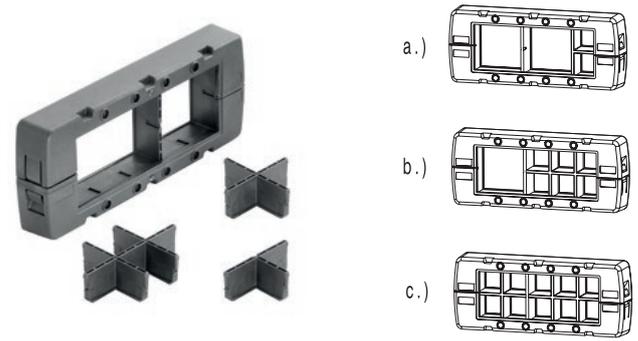
**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (outside)	CABTITE OFRL BK	20	<b>2907560000</b>
Operating tool	CABTITE TOOL ATSE PA	1	<b>2637360000</b>
Mounting screw set	CABTITE SC M5X25 SET	1	<b>2635120000</b>
<b>Note</b>			

**Dimensioned drawing**



**Cabtime FT - CABTITE FRFT 24/10 SET**



Possible combinations

The frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble, the sealing elements are mounted from the outside. The captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

**Technical data**

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP66 / Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

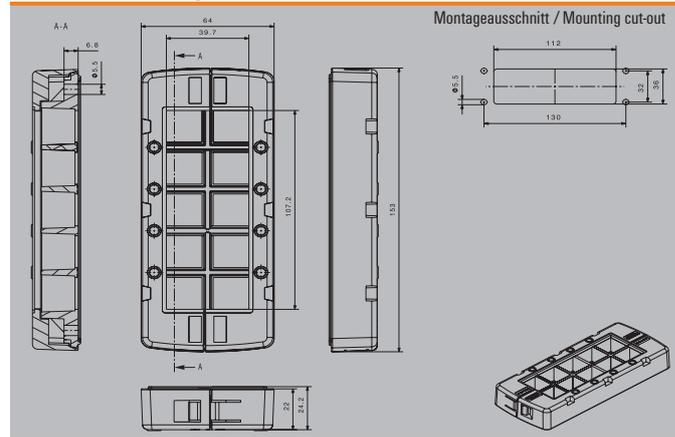
**Ordering data**

Type	Qty.	Order No.
<b>Set</b>		
CABTITE FRFT 24/10 SET	1	<b>2891560000</b>
<b>Single frame (without snap-in inlay)</b>		
CABTITE FRFT 24/10	1	<b>2891540000</b>
<b>Note</b>	The individual frames do not contain any Rastinlays or sealing elements.	

**Accessories**

Product type	Type	Qty.	Order No.
Locking frame (outside)	CABTITE OFRL BK	20	<b>2907560000</b>
Operating tool	CABTITE TOOL ATSE PA	1	<b>2637360000</b>
Mounting screw set	CABTITE SC M5X25 SET	1	<b>2635120000</b>
<b>Note</b>			

**Dimensioned drawing**



**Cabtite CGS - separable cable gland**



Spare counter nut

For metric through holes from M20 to M63, the Cabtite cable entry system offers separable cable glands for cables with and without plugs. In case of maintenance or changes in the system, pre-assembled cables with diameters from 2 to 35 mm can be quickly and safely inserted into switch cabinets or housings. After inserting the sealing elements (Cabtite SE), the two halves of the cable gland are simply snapped together. A likewise separable lock nut on the inside of the cabinet ensures a secure and firm hold.

**Technical data**

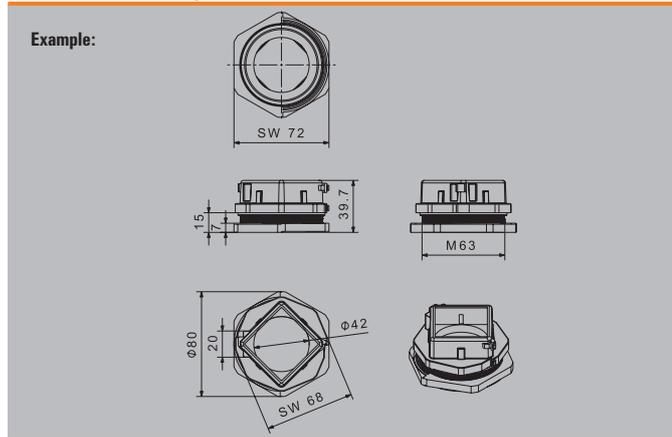
Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class	IP66
UL 94 flammability rating	V-0
<b>Note</b>	

**Ordering data**

Type	Qty.	Order No.
<b>Divisible cable gland*</b>		
CABTITE CGS M20 BK	10	2584200000
CABTITE CGS M25 BK	10	2584180000
CABTITE CGS M32 BK	10	2584160000
CABTITE CGS M40 BK	5	2584150000
CABTITE CGS M50 BK	5	2584130000
CABTITE CGS M63 BK	5	2584120000
<b>Articulated locknut</b>		
CABTITE LNS M20 BK	10	2584110000
CABTITE LNS M25 BK	10	2584090000
CABTITE LNS M32 BK	10	2584070000
CABTITE LNS M40 BK	5	2584050000
CABTITE LNS M50 BK	5	2584030000
CABTITE LNS M63 BK	5	2584010000
<b>Rastinly for M40-M63**</b>		
CABTITE GI X BK	5	2584290000
<b>Note</b>		

\*The cable glands are supplied with a locknut. \*\*The snap-in insert is required to install 4 small sealing elements in the cable gland.

**Dimensioned drawing**



**Cabtite GI - Rastinlay**



The insertable snap-in inlay allows the frame openings/cable glands to be configured as required for the small or large sealing elements used. Thus the Cabtite cable entry system can be variably configured for different requirements (cables, lines, hoses, pneumatic and hydraulic lines).

**Technical data**

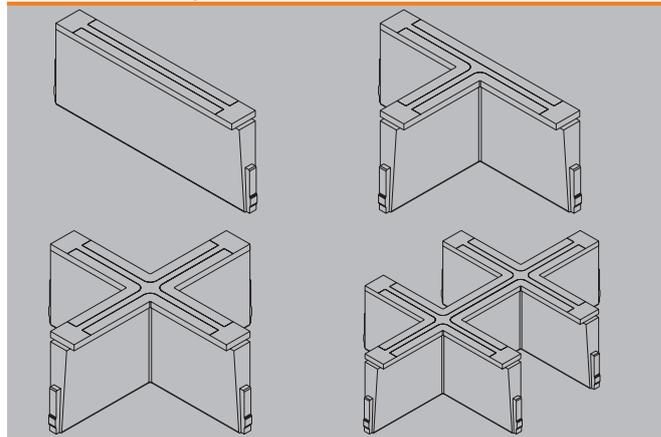
Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class	IP66
UL 94 flammability rating	V-0
<b>Note</b>	

**Ordering data**

Type	Qty.	Order No.
CABTITE GI I BK	5	2584320000
CABTITE GI T BK	5	2584300000
CABTITE GI H BK	5	2584270000
<b>Rastinly for M40-M63**</b>		
CABTITE GI X BK	5	2584290000
<b>Note</b>		

\*\*The locking inlay is required to install 4 small sealing elements in the cable gland.

**Dimensioned drawing**



**Divisible cable gland and accessories**

**CABTITE CR - Cable support strips (EMC)**



In combination with a large number of different shield connection clamps (KLBÜ), the shield connection rails enable practical, uncomplicated and fast shielding of cables.

**Technical data**

Material	Steel, galvanized
Colour	silver

**Note**

**Ordering data**

Type	Qty.	Order No.
CABTITE CR 4/1 EMV	10	2583950000
CABTITE CR 10/6 EMV	10	2583930000
CABTITE CR 16/8 EMV	10	2583910000
CABTITE CR 24/10 EMV	10	2583890000

**Note**

**CABTITE BP - Blanking plug**



The blind plugs are used for the safe closing of unneeded cable passages in the sealing elements.

**Technical data**

Material	Polyamide
Colour	white
Operating temperature	-40...120 °C

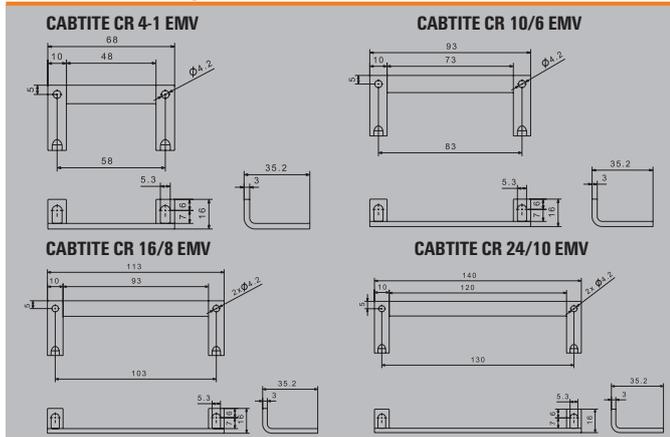
**Note**

**Ordering data**

Type	Qty.	Order No.
CABTITE BP 2MM PA	25	2652300000
CABTITE BP 3MM PA	25	2652310000
CABTITE BP 4MM PA	25	2652320000
CABTITE BP 5MM PA	25	2652330000
CABTITE BP 6MM PA	25	2652340000
CABTITE BP 7MM PA	25	2652350000
CABTITE BP 8MM PA	25	2652360000
CABTITE BP 9MM PA	25	2652370000
CABTITE BP 10MM PA	25	2652380000
CABTITE BP 12MM PA	25	2652400000
CABTITE BP 13MM PA	25	2652410000
CABTITE BP 14MM PA	25	2652420000
CABTITE BP 17MM PA	25	2652430000

**Note**

**Dimensioned drawing**





## Cabtite cable entry plates

Space-saving insertion of plugless cables into control cabinets, enclosures and machines

If multiple hoses or cables are to be inserted into control cabinets or enclosures, cable entry plates are the best choice. They seal, minimise tensile stress, save space, and are an economical alternative to conventional cable glands.

Cabtite cable entry plates only require a small rectangular wall cut-out in the enclosure. Plugless cables, hoses, or optical fibres can be inserted effortlessly. Installation time is reduced by up to 40% compared to cable glands. Cabtite cable entry plates comply with degree of protection IP54 or IP66 (snap or screw variant) and are tested according to DIN EN 60529. They are made of UL94 V-0 certified TPE material and are suitable for temperature ranges between -40°C and +90°C.

### F

#### Your special advantages:

- For external installation on control cabinet walls
- Suitable for different wall thicknesses
- Fast and simple solution for inserting plugless cables, hoses and conductors
- High packing density with low space requirement
- Available in high protection classes IP54 and IP66, as well NEMA 1, 4x and 12
- Up to 40% more time saved compared to cable glands



#### Handling-Video

Cabtite Cable Entry Plates,  
Screw-version

[www.weidmueller.com/handling-cabtite-ep-fs](http://www.weidmueller.com/handling-cabtite-ep-fs)



#### Handling-Video

Cabtite Cable Entry Plates,  
Snap-version

[www.weidmueller.com/handling-cabtite-ep-snap](http://www.weidmueller.com/handling-cabtite-ep-snap)

**IP54 Snap version**



Insert cables and wires without plugs into control cabinets, enclosures or machines easily and in the smallest possible space. The tool-free IP54 snap-in version of the cable entry plates is tested according to DIN EN 60529 and made of UL94 V-0 certified TPE material.

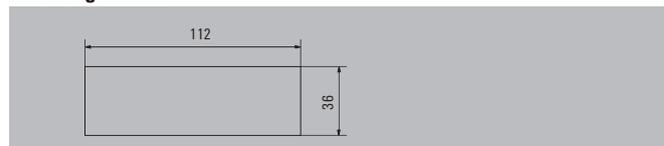
**Technical data**

Material	TPE
Colour	grey
Operating temperature	-40...90 °C
Protection class / Protection class (UL)	IP54 / Type 1, Type 12
UL 94 flammability rating	V-0
<b>Note</b>	

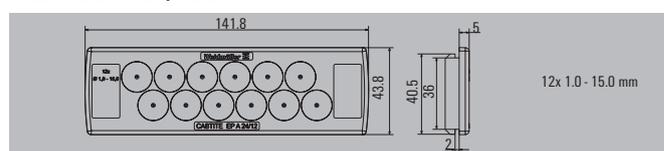
**Ordering data**

Type	Qty.	Order No.
<b>Type A - for wall thicknesses 1.5 - 2.5 mm</b>		
CABTITE EP A 24/12 GY	10	2743540000
CABTITE EP A 24/14 GY	10	2743550000
CABTITE EP A 24/17 GY	10	2743560000
CABTITE EP A 24/18 GY	10	2743570000
CABTITE EP A 24/19 GY	10	2743580000
CABTITE EP A 24/26 GY	10	2743590000
CABTITE EP A 24/42 GY	10	2743600000
CABTITE EP A 24/48 GY	10	2743610000
CABTITE EP A 24/50 GY	10	2743620000
<b>Type B - for wall thicknesses 2.5 - 4 mm</b>		
CABTITE EP B 24/12 GY	10	2743630000
CABTITE EP B 24/14 GY	10	2743640000
CABTITE EP B 24/17 GY	10	2743650000
CABTITE EP B 24/18 GY	10	2743660000
CABTITE EP B 24/19 GY	10	2743670000
CABTITE EP B 24/26 GY	10	2743680000
CABTITE EP B 24/42 GY	10	2743690000
CABTITE EP B 24/48 GY	10	2743700000
CABTITE EP B 24/50 GY	10	2743710000
<b>Note</b>		

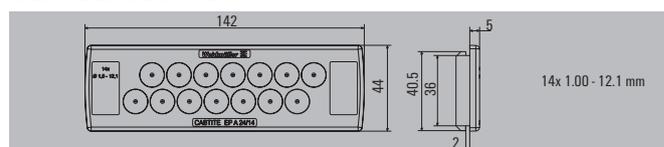
**Mounting Cut-out**



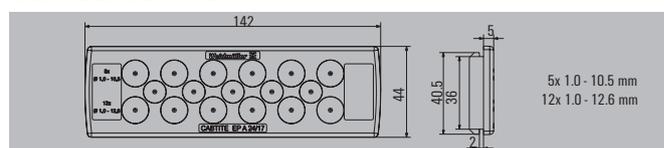
**CABTITE EP ... 24/12 GY**



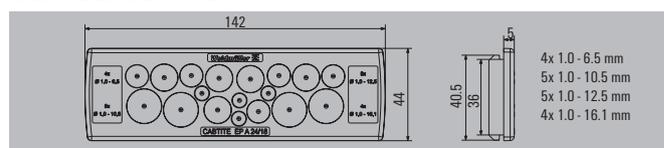
**CABTITE EP ... 24/14 GY**



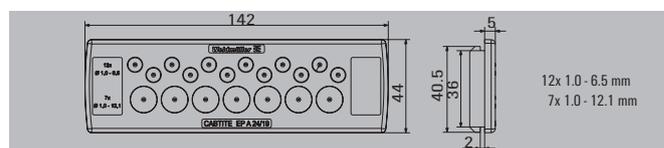
**CABTITE EP ... 24/17 GY**



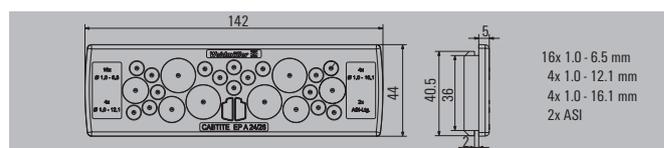
**CABTITE EP ... 24/18 GY**



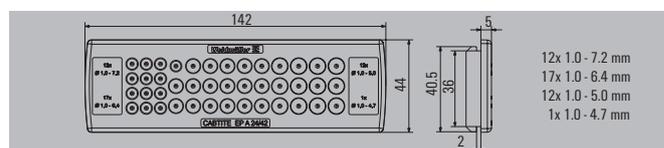
**CABTITE EP ... 24/19 GY**



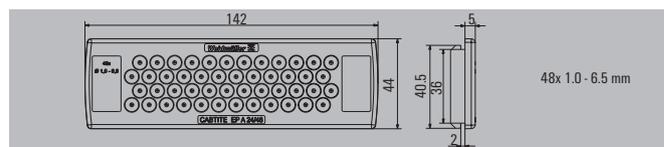
**CABTITE EP ... 24/26 GY**



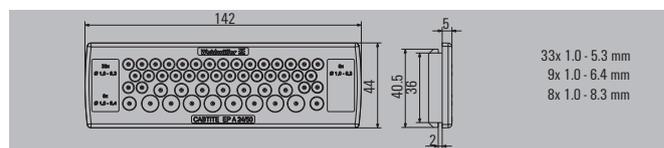
**CABTITE EP ... 24/42 GY**



**CABTITE EP ... 24/48 GY**



**CABTITE EP ... 24/50 GY**



## Cable Entry Plates

### IP66 Screw version



Insert cables and wires without plugs into control cabinets, enclosures or machines easily and in the smallest possible space. The IP66 screw version of the cable entry plates is tested according to DIN EN 60529 and made of UL94 V-0 certified TPE material with a hard plastic core.

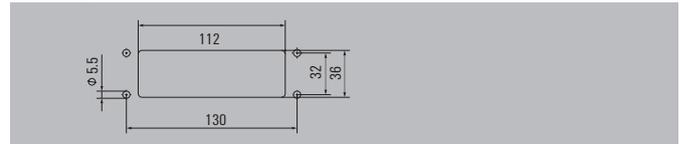
#### Technical data

Material	TPE
Colour	grey
Operating temperature	-40...90 °C
Protection class / Protection class (UL)	IP66 / Type 1, Type 12, Type 4X
UL 94 flammability rating	V-0
<b>Note</b>	

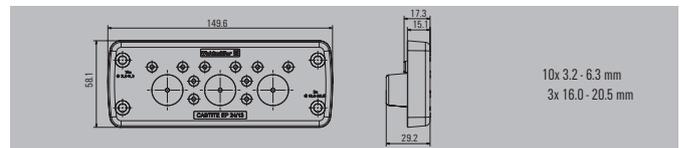
#### Ordering data

Type	Qty.	Order No.
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CABTITE EP 24/14 GY	10	2779320000
CABTITE EP 24/16 GY	10	2779330000
CABTITE EP 24/16-1 GY	10	2779340000
CABTITE EP 24/17 GY	10	2779350000
CABTITE EP 24/20 GY	10	2779360000
CABTITE EP 24/21 GY	10	2779370000
CABTITE EP 24/32 GY	10	2779380000
<b>Note</b>		

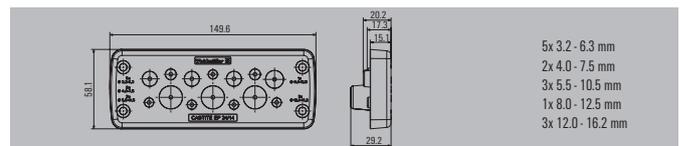
#### Mounting Cut-out



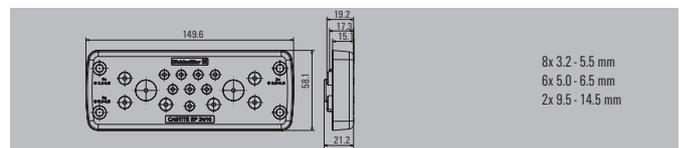
#### CABTITE EP 24/13



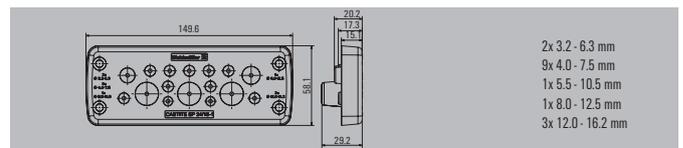
#### CABTITE EP 24/14



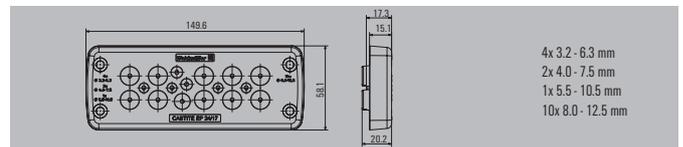
#### CABTITE EP 24/16



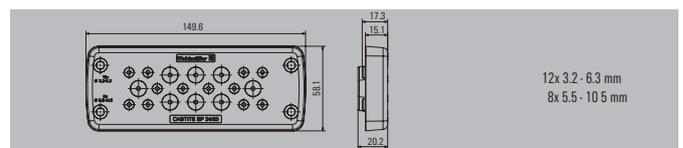
#### CABTITE EP 24/16-1



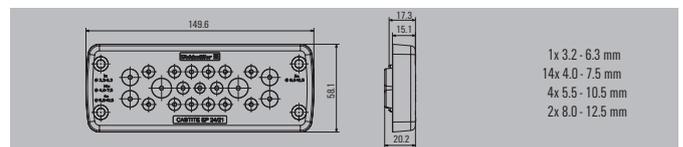
#### CABTITE EP 24/17



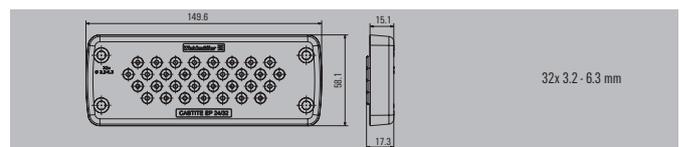
#### CABTITE EP 24/20



#### CABTITE EP 24/21



#### CABTITE EP 24/32



# Tools

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**Tools**

Overview

G.2

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# Tools

At Weidmüller, we have been developing and manufacturing quality tools to meet the most stringent requirements for over 30 years. When we develop new solutions, we always keep our goal in mind: to make your job easier, optimise processes and help protect the long-term productivity of your business.

The best conditions for this can be created by using perfectly coordinated products and tools from a single source. Our range includes professional manual tools for cutting, stripping, crimping, testing and screwing. The assortment is supplemented by tool sets that sensibly and efficiently combine tools and matching accessories. Our machines simplify continually recurring tasks and save valuable time.

**Your special advantages:**

- Increased safety thanks to the tool certification service
- Flexibility in form and function
- High level of efficiency thanks to sophisticated ergonomics and multiple actions per work process
- Profitable interplay between products and tools from a single source

**Stripping tools**

Thanks to the exact adaptation to the insulation and wire cross-section, our professional stripping tools guarantee defect-free processing with consistently reliable stripping results. With its wide range of stripping tools, Weidmüller satisfies all the criteria for professional cable processing.



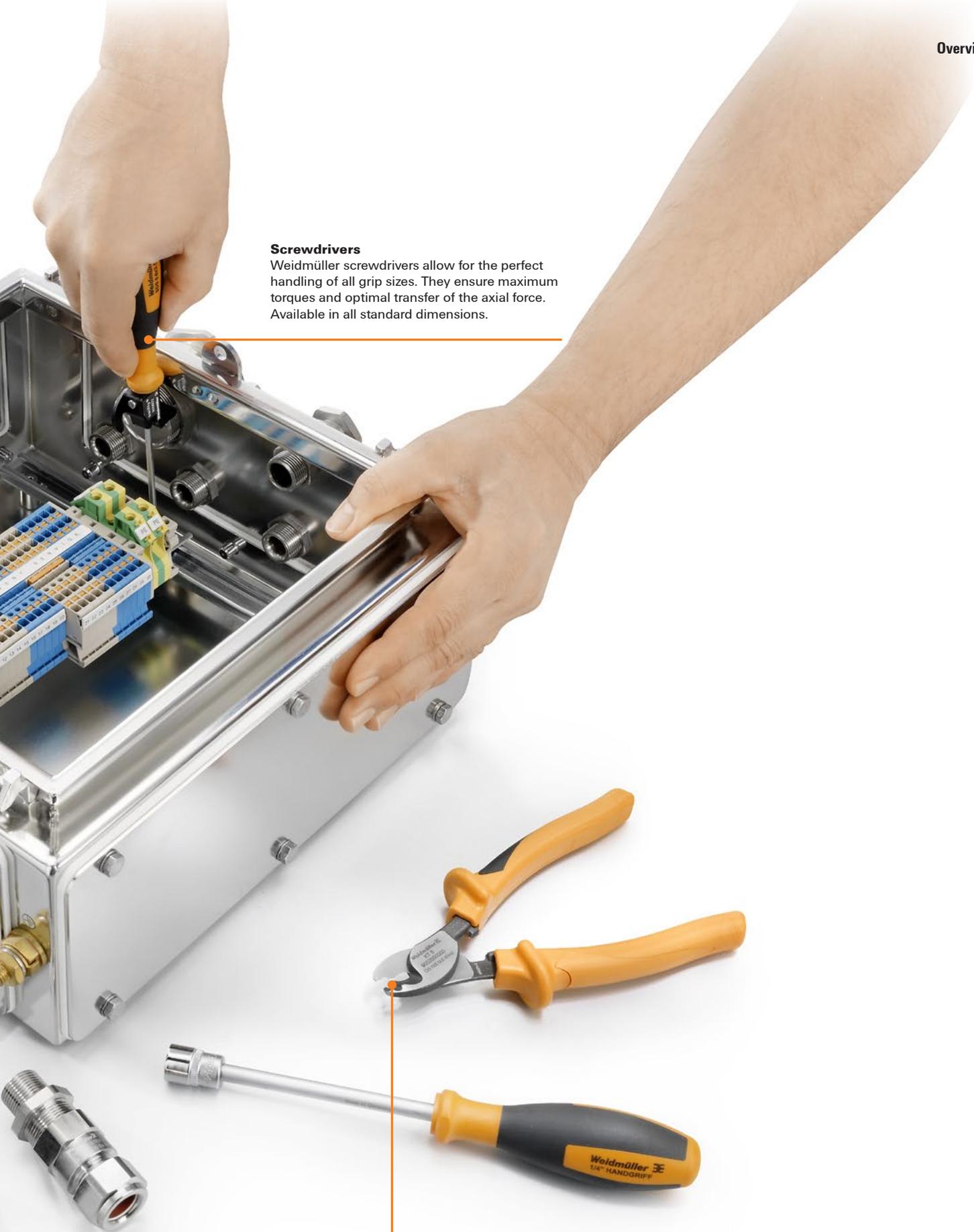
**Cable gland tools**

The Weidmüller cable gland tools are suitable for an extremely wide range of cable glands. They enable you to tighten or loosen several rows of connections without deforming the cable glands.



**Screwdrivers**

Weidmüller screwdrivers allow for the perfect handling of all grip sizes. They ensure maximum torques and optimal transfer of the axial force. Available in all standard dimensions.

**Cutting tools**

Weidmüller is a specialist in the cutting of copper and aluminium cables. The range of products extends from cutting tools with direct force application for small cross-sections to cutting tools for large diameters.



# Service and support

<b>Service and support</b>	Service connects - worldwide	V.2
	Engineering services and customised products	V.3
	Support Center	V.4
	Additional support services	V.5
	easyConnect - Your Industrial Service Platform	V.6
	Digital Engineering: Digital planning with Weidmüller product data, interfaces and software solutions	V.8
	Connectivity Consulting: A long-term increase in efficiency through partnership-based exchange	V.9
	Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering	V.10
	Your digital ordering options at Weidmüller	V.12

## Our expertise for your requirements

### Service connects – worldwide



Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity.

Our personal support answers all questions reliably and expertly. During planning, installation or operation our service and support offer is your best companion.

In short: Weidmüller's global service combines our expertise with your requirements.

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Your way to our service  
[www.weidmueller.com/service](http://www.weidmueller.com/service)

# Engineering services and customised products

Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.



## Consulting and engineering

The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, pre-fitted mounting rails or complete small cabinets – our application centres provide a highly qualified custom-made engineering and production service.



## Connectivity Consulting

Increase your competitiveness - supported by our experts. Our drive is to optimise your competitiveness. That's why our team of experts supports you in significantly increasing your efficiency in electrical machine design and control cabinet construction. With proven products and services from the Weidmüller portfolio – and with the experience gained from over 300 projects worldwide.



## Klippon® Assembly Service – Assembled terminal rails and enclosures supplied ready for installation

The Klippon® Assembly Service supplies fully assembled terminal rails and enclosures that can be installed directly in the cabinet or on the machine. It therefore simplifies planning, accelerates production processes, reduces work steps and ensures the reliable delivery of individually assembled products.



## Fast Delivery Service - Your ideas deserve a quick realisation

Obtain offers 24/7 and within minutes, including directly orderable article numbers with our Fast Delivery Service. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes. Dispatch your orders in 5 days. Assemble individual terminal strips and enclosures from batch size 1!

## Expand the possibilities of our products

### Our Support Center - the answer is just a click away



Receive fast and intuitive support to get the most out of our products in your application. In our new Support Center you can search or navigate to the many application notes, product information, video tutorials or software downloads of our products. It is also possible to create a technical Service Request in the Support Center and check the current status at any time. Use our AI chatbot for u-mation and u-software products and get immediate answers to your questions at any time.

- **Support Center** – the answer is just a click away
- **Everything at a glance** – One central support hub, where all relevant information is available
- **Powerful search** – Provides filter functions for various types of information and products
- **Navigation through product hierarchy** – Navigation to specific products through our product hierarchy
- **More than 40,000 downloads** – Application notes, video tutorials, templates and examples, user documentation, engineering data, ...
- **Personal contact** – Direct access to your personal technical contact in your country
- **Quick help via Service Request** – Create a service request to get quick technical help and check the current status and the solution provided



Explore the world of our new Support Center  
[support.weidmueller.com](https://support.weidmueller.com)

## Additional support services



### Training and Webinars

Stay tuned in a world that is accelerating. In our entertaining interactive webinars, we offer you the opportunity to learn about new products and technology topics and to interact with our experts.



### Repairs and replacement parts

We offer repair and components for our Workplace Solutions as well as assistance for other Weidmüller products. Find out how our experts can help you with your repair request.



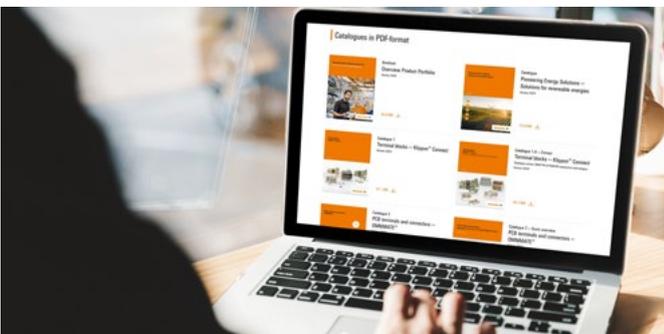
### Security advisory board

Our Product Security Incident Response Team (PSIRT) continuously informs you about possible security-related vulnerabilities of our products.



### Product change notifications

Technical modifications of our products always available online.



### Technical product catalogues

Technical data for our entire program in Industrial Connectivity for download in PDF-format.

# Your ticket to the world of digital service

## easyConnect – Your Industrial Service Platform



Our cloud-based platform is your ticket to the world of digital services from Weidmüller, and the intuitive and future-proof tool for your way to the Industrial IoT. Realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services.

As an open, modular and perfectly integrable system, the platform is your enabler for a wide range of use cases. Increase your efficiency and unleash your full innovation potential with easyConnect.

V



Interested in using easyConnect?  
Learn how to get started with easyConnect step-by-step.  
[www.weidmueller.com/easyconnect](http://www.weidmueller.com/easyconnect)

## Why should you use easyConnect?

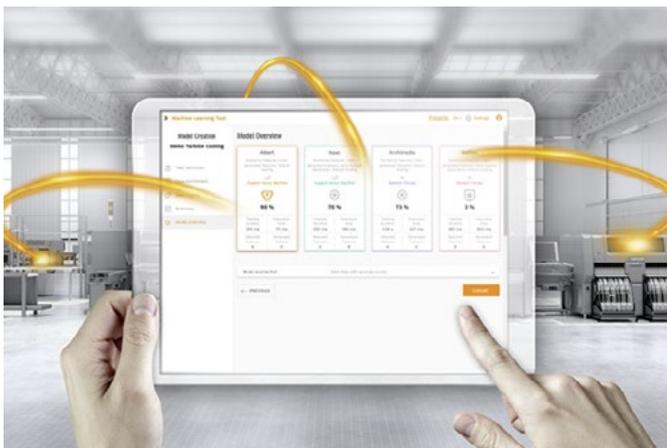
- You want to enter your digital transformation step-by-step?
- You want to make the step into Industrial IOT, but have no or little IT expertise?
- You want to use your digital data for smart & scalable services?
- You want to offer digital services (such as customised dashboard) to your customers?
- You want to improve your service offering and efficiency, e.g. through remote access?
- You feel Weidmüller's digital services are interesting, but you have „your cloud“ already?



Weidmüller comes up with the solution: easyConnect, the new digitalisation platform. It bundles Weidmüller's digital services at one place in the cloud and connects them with various Weidmüller devices.

With easyConnect you start digitalising your application step-by-step without ballast in a secure way.

## The following services are initially available on easyConnect:



### Device management

Adding and managing cloud-connected devices is typically the first step in any Industrial IoT use case.

### Asset management

The asset management service is a modelling tool that allows users to model their assets and processes and link them to relevant time series data.

### Remote access (u-link)

u-link guarantees a quick and secure access to machines and plants while also allowing for efficient management.

### Data visualisation

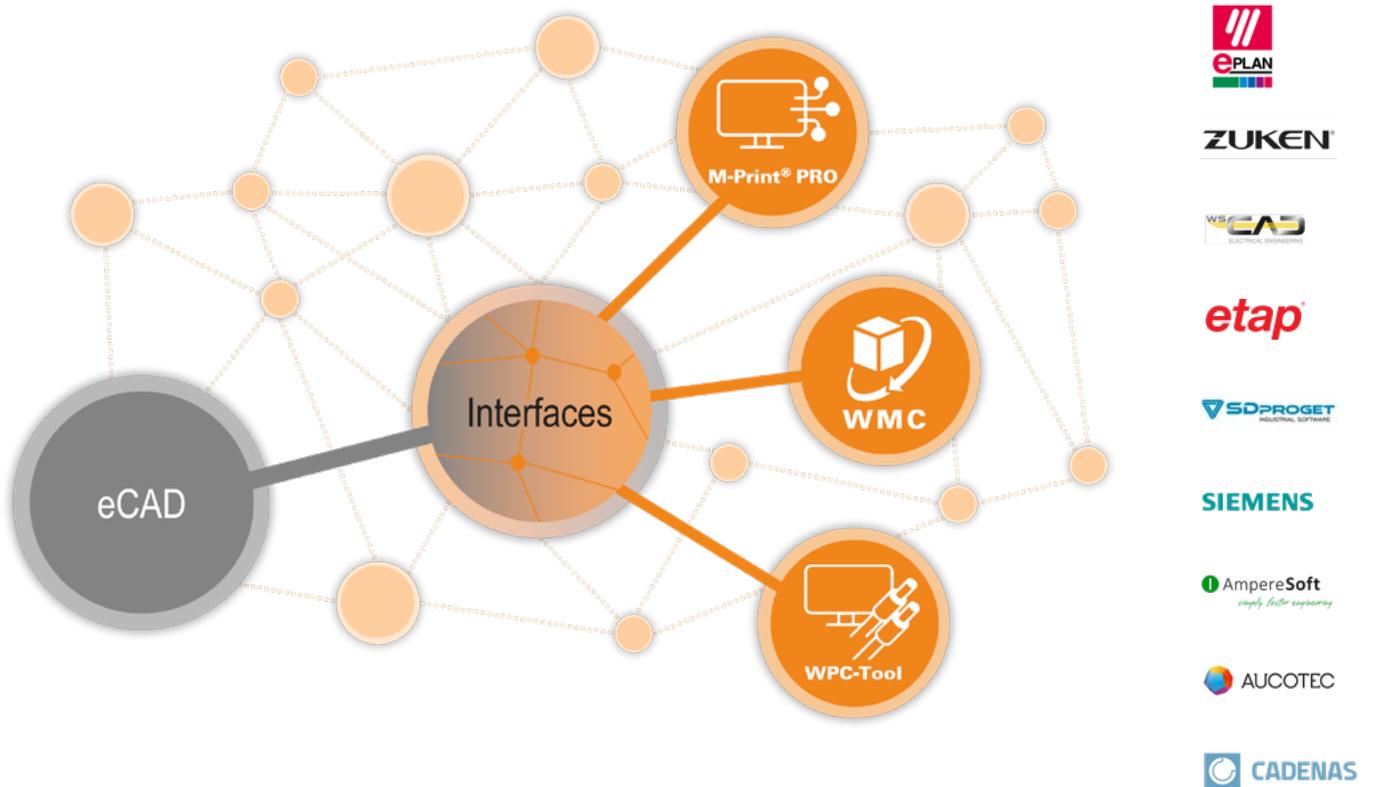
easyConnect data visualisation services enable users to view, monitor and display live and historical data.

### AutoML

With Weidmüller Industrial AutoML, you can optimize operations, increase product quality and develop new business models by benefiting from advanced analytics.

## Digital Engineering

### Digital planning with Weidmüller product data, interfaces and software solutions



You want to be optimally supported in all steps of the electrical design process, from planning to production? Weidmüller offers you support as best as possible!

#### Your advantages:

- **Processes are digitized, time is saved and sources of errors are eliminated** – With Weidmüller software solutions for terminal strip and housing configuration (WMC), component marking (M-Print® PRO) and cable assembly (WPC-Tool), you are perfectly prepared for all project phases in electrical design and control cabinet construction.
- **Potential sources of error are eliminated and your productivity is increased** – High-performance interfaces enable a complete data consistency from the planning to the commissioning process.
- **A simple, safe and fast design process** – Weidmüller provides digital product data for a variety of engineering systems. The data is always compliant with the latest system provider standard.



Find out more about digital engineering  
[www.weidmueller.com/digital\\_engineering](http://www.weidmueller.com/digital_engineering)

# Connectivity Consulting

## Counteracting the shortage of skilled workers with Connectivity Consulting



Are you looking for innovative, sustainable and value-adding solutions for your individual requirements? Weidmüller offers you support with experienced experts for products, solutions and services in the industrial environment of energy, signals and data!

### Your advantages:

- **Increasing efficiency and quality in cabinet building** – Weidmüller offers you customized solutions to make your cabinet building fit for purpose. From design optimization and process automation to digital planning and commissioning. Every single work step offers opportunities for optimization.
- **Benefit from the practical experience of the experts** – Weidmüller's connectivity consulting experts have acquired practical specialist knowledge in many international projects.
- **Support in the implementation process** – From analysis to implementation: Our experts support you with all measures.



Find out more about Connectivity Consulting  
[www.weidmueller.com/connectivity-consulting](http://www.weidmueller.com/connectivity-consulting)

# Boost Your Efficiency from Engineering to Production

## Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering

Digital engineering can be so easy – with the Weidmüller Configurator!

Discover the Weidmüller Configurator (WMC) – your free software solution that guides you through the entire value chain, all the way to production.

With access to nearly 14,000 digital products, the WMC provides an extensive range for configuring terminal strips, processed empty enclosures, and ready-to-connect terminal boxes. This includes over 10,500 products for terminal strip configurations, approximately 2,200 products for terminal box configurations, and around 1,200 products for configuring our heavy-duty connectors.

### Your Benefits with the Well-Known WMC:

- **Seamless Engineering** – Import your circuit diagrams and terminal strips effortlessly with a single click directly from your engineering system into the WMC. Our interfaces enable continuous data flows, saving you valuable time, minimizing errors, and ensuring smooth project execution.
- **Optimized Production** – The WMC supports you on the shop floor, helping you assemble the required configurations yourself. Especially in times of skilled labor shortages, the WMC makes your production more efficient. With its user-friendly interface, 3D and touch functions, it eases the workload for your employees.



All information about the software can be found here:  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)

# New Online Configurator – Experience the Future of Digital Engineering

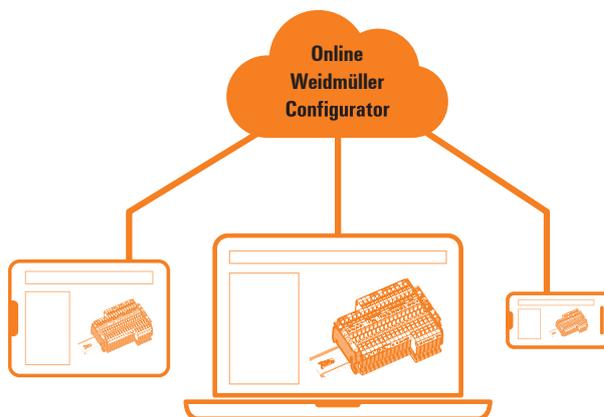
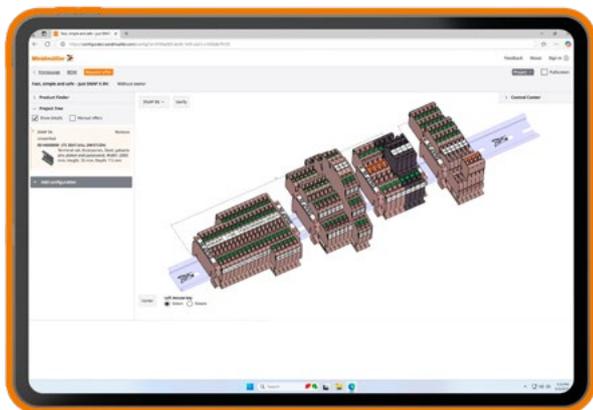
Configure. Share. Access anywhere.



**Online & Ready to Go:** No installation required – use the Online Configurator directly in your browser. Access it flexibly from any device, whether PC or tablet, in the office or on the go. Your production will have a read-only view mode to ensure the security and consistency of your configurations.

**Intelligent Optimization with a single Click:** Reduce the width of your terminal strip with just one click – no product knowledge needed. Easily switch connection technologies, for example, from screw to PUSH IN or even to our innovative SNAP IN technology. Or take it a step further and transform your configured rail directly for labeling with the Klippon® Automated RailLaser.

**Easy Transition – Seamlessly Integrated:** Thanks to the integrated cloud upload function, you can transfer your existing terminal strip configurations from the WMC with just one click.



Start online now!  
Configure anywhere, anytime and online.  
[configurator.weidmueller.com](http://configurator.weidmueller.com)



### Fast Delivery with Both Configurators:

Whether you use the WMC or the Online Configurator – individually configured mounting rails (and enclosures in the WMC) can be directly transferred to the “Fast Delivery Service.” You will receive ready-to-install solutions in the shortest possible time. This combines maximum customization with minimal delivery time, allowing you to benefit from fast and reliable delivery.

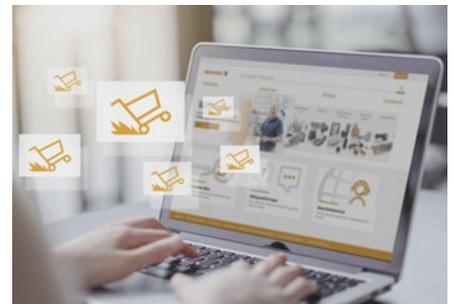
# Digital ordering options

## Your digital ordering options at Weidmüller

Find and easily select the products you need, with convenient ordering: as your Partner in Industrial Connectivity, we know what counts in purchasing. That is why we offer you a variety of options for ordering products from us and optimising your purchasing processes to meet your individual requirements and your workflow. The choice is yours.

### Order via the Weidmüller eShop

Our eShop offers you access to the complete Weidmüller product range around the clock – directly from a PC, tablet, or smartphone. The intuitive user guidance supports you as you select from over 50,000 products. Technical data, prices, and availabilities are available at any time. The shopping basket with check out function lets you place an order in seconds. Convenient additional functions like CSV upload, order history, reports, or custom order templates make your ordering processes even more efficient.



### Order via the OCI interface

The Open Catalogue Interface (OCI) facilitates the exchange of data between your enterprise resource planning system and our eShop. This means that our eShop is integrated into your system via an OCI interface, so you have access to our complete product catalogue from your enterprise resource planning system. You can filter and select products, place them in your shopping basket and place direct orders without changing your software application. The open OCI standard is supported worldwide from a variety of software providers.



### Order via the EDI interface

Our Electronic Data Interchange (EDI) also offers you the option of ordering our products directly from your enterprise resource planning system. All order data is transmitted automatically to our system and processed immediately. Orders, order confirmations, invoices, and delivery notices are transmitted lightning fast. This helps you make your purchasing processes even more efficient.



We will be glad to advise you on which solutions are suitable for you and how implementation is possible.  
Get in touch with us  
[www.weidmueller.com/digital-order](http://www.weidmueller.com/digital-order)

# Technical appendix

<b>Technical appendix</b>	Directive 1999/92/EC	W.2
	ATEX directive 2014/34/EU	W.5
	IECEx scheme	W.6
	 Hazardous areas guide	W.7
	IP class of protection	W.10
	Guidelines for selecting cable glands	W.12
	Ratings plate of an empty enclosure	W.14
	Type label for enclosure assemblies	W.15

# Directive 1999/92/EC

Article 137 of the European Community Formation Treaty set out the minimum standards in order to improve workers' health and safety, this can also be put at risk by explosive atmospheres. An explosive atmosphere is a mixture of air and flammable gasses, vapours, mists or dust under atmospheric conditions where, following successful ignition, the burning process will propagate throughout the whole unburned mixture.

The directive 1999/92/EC was transferred into national law. Compliance with the minimum standards contained in this directive does not guarantee that all relevant national laws are met. It is possible for local regulators to introduce more stringent requirements.

The employer is required, according to the directive 1999/92/EC, to take measures to ensure the health and safety of the employees. One measure is the division of the area into zones where explosive atmospheres could be present.

Unless the risk analysis conducted by the employer indicates otherwise, all areas where an explosive atmosphere may be present must be equipped with devices and protective systems that meet the relevant category of the ATEX directive 2014/34/EU.

In particular in these zones the following categories of equipment should be used, as long as they are suitable for use with gases, vapours, mists or dusts:

- In Zone 0 or Zone 20: category 1 devices
- In Zone 1 or Zone 21: category 1 or category 2 devices
- In Zone 2 or Zone 22: category 1, category 2 or category 3 devices

## Zoning according to the directive 1999/92/EC

Explosion risk areas are classified into zones according to likelihood of explosive atmospheres occurring and their persistence.

### Zone 0

An area which has a potentially explosive atmosphere that is a mixture of air and **flammable gases, vapours or mists**. The mixture is either permanently present or frequently present over long periods of time.

### Zone 1

An area in which during normal operations a potentially explosive atmosphere of air and **flammable gases, vapours or mists** can occasionally form.

### Zone 2

An area for which during normal operations there is at most only a short-term occurrence of a potentially explosive atmosphere of mixtures of air and **flammables gases, vapours or mists**.

### Zone 20

An area where a potentially explosive atmosphere is present in the form of a **flammable dust** cloud in the air. This cloud is either permanently present or frequently present over long periods of time.

### Zone 21

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air can occasionally form.

### Zone 22

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air is not normally present or only present for a short time.

For the risk assessment and as well as the zoning concept described above, Ex devices themselves can be considered in an alternative process which uses the equipment protection level (EPL). These protective levels determine the internal ignition risk of a device where the sort of applied protection does not play a role.

The system of EPL classifications (Equipment Protection Level) is shown below.

### **Firedamp (methane) risk mines (Group I)**

#### **EPL Ma**

Equipment for installation in mining applications, offering a „very high“ level of protection and which do not constitute a source of ignition during normal operation, or in the event of rarely occurring faults.

#### **EPL Mb**

Equipment for installation in a mine with a high level of protection. Has sufficient safety to ensure that there is no source of ignition in the period of time between the outbreak of gas and the time the equipment is switched off.

### **Gases (Group II)**

#### **EPL Ga**

Equipment for explosive-risk gas atmospheres with a very high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Gb**

Equipment for explosive-risk gas atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Gc**

Equipment for explosive-risk gas atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

### **Dust (Group III)**

#### **EPL Da**

Equipment for combustible dust atmospheres with a very high level of protection. No source of ignition is present during normal operation or in very rare faults.

#### **EPL Db**

Equipment for combustible dust atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Dc**

Equipment for combustible dust atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

### Classification of explosive groups

Electrical devices for groups II and III are classified further as a function of the properties of the explosive atmosphere for which they are intended.

The danger of the atmosphere increases from IIA(IIIA) to IIC(IIIC) so that all equipment certified for use in IIC(IIIC) areas may also be used in IIA(IIIA) and IIB(IIIB) areas.

#### Classification of explosive groups

Group	Material, e.g.	Ignition energy	Group	Material
IIA	Propane	266 µJ	IIA	Flammable fluff
IIB	Ethylene	85 µJ	IIB	Non-conductive dust
IIC	Hydrogen	19 µJ	IIC	Conductive dust

#### Classification of zones and equipment categories

Combustible ingredients	Explosive atmospheres	Zone division	EPL safety level	Identification	
				Equipment group	Device category
Gas, mist, vapours/fumes (G / Gas)	permanent, long-term	Zone 0	Ga	II	1G
	occasionally	Zone 1	Gb	II	2G
	unlikely, short-term	Zone 2	Gc	II	3G
Dusts (D / Dust)	permanent, long-term	Zone 20	Da	II	1D
	occasionally	Zone 21	Db	II	2D
	unlikely, short-term	Zone 22	Dc	II	3D

# ATEX directive 2014/34/EU

Article 96 of the Treaty on the Foundation of the European Union and Decision no. 768/2008/EU and Federal Gazette 96/309-356 govern the standardisation of legal regulations in the Member States. The ATEX directive 2014/34/EU sets out the basic requirements for health and safety protection as a directive following the new concept. It is aimed at manufacturers of equipment and components designed for used in potentially explosive atmosphere areas.

This directive had to be adopted without deviation into national law.

For Germany, this took the form of the passing of the Explosion Protection Ordinance (2015 ExVo 2015) of the Product Safety Act (ProdSG). It applies to all industrial potentially explosive areas, including mines, and also covers protection from dust-ignited explosions.

This directive sets out the requirements for the products depending on their equipment group and category. This is the category as set down by the directive 1999/92/EC applicable for each appropriate zone.

To prove conformity with the basic health and safety regulations, harmonised standards are used. If the requirements as laid out in the Official Journal of the EU are met, then it will be in compliance with the standard requirements for conformity (presumption of conformity). Various, mostly equivalent, protection types have been standardised harmoniously.

This conformity assessment process of the directives sets out different procedures. For device category 3, the manufacturer can perform the conformity assessment itself. For devices of categories 1 and 2, this conformity check must be carried out at a notified body in the form of a EC type-examination. In addition, quality assurance must be monitored for the devices of categories 1, 2 and 3.

Weidmüller has devices and components in its product range. Empty enclosures are components and are certified at the factory as such. Installing certified components does not create a certified equipment. To do this, additional tests must be carried out.

Weidmüller offers customer-specific devices available as certified solutions. The production of assembled enclosures is monitored by a notified body.

## IECEX scheme

The IECEx scheme is an international certification scheme for products which meet the requirements of the international standards, e.g. the technical committee TC31's IEC standards.

The certificates awarded in this scheme are published on the IECEx website ([www.iecex.com](http://www.iecex.com)) as an electronic certificate. They can be viewed online and printed out.

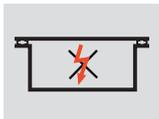
A Certificate of Conformity (CoC) refers to a test report (Ex Test Report ExTR) and on an assessment of the quality assessment report from the manufacturer (QAR).

The standards used for the production of the test report correspond almost entirely to the harmonised standards in Europe. Recent EN standards were initially adopted as IEC standards.

## Protection concepts

The zoning described above provides the basis for the selection of the type of ignition protection. So, as an example, in the ATEX applicable areas, only ignition protection devices meeting Ex ia for Zone 0 (highest probability of an explosive atmosphere being present) are allowed.

### Increased safety Ex e No sparks and a surface temperature limited to a safe level

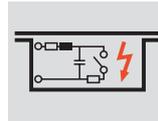


Increased safety is for products where there are no sparks produced during normal operation or in case of a failure. The surface temperature of the relevant parts is limited to a value below the ignition temperature.

Increased safety is achieved by reducing the current load and raising the isolation properties and by maintaining clearance and creepage distances above the value in an industrial application. The highest voltage permitted for this protection scheme is 11 kV (D.C. or A.C. rms).

This protection scheme is usually used for distribution cabinets..

### Intrinsically safe Ex i Limited to a safe level of ignition energy

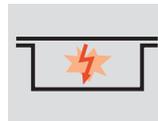


Intrinsic safety is for products where electrical energy which flows into the product, or is stored in the product, is not sufficient to ignite the surrounding explosive atmosphere. This also applies in fault conditions. The methods that achieve intrinsic safety mean that it is important that not only the devices installed in direct contact with the explosive atmosphere are constructed correctly, but also the electrical devices to which they are connected.

Intrinsically safe equipment and intrinsically safe parts of the associated equipment are divided into protection levels: ia (for zones 0, 1, and 2), ib (for zones 1 and 2), and ic (only for zone 2).

A typical application area are control and display circuits with low voltage and current.

### Pressure-resistant Ex d encapsulation Limits the explosion to the inside of the enclosure

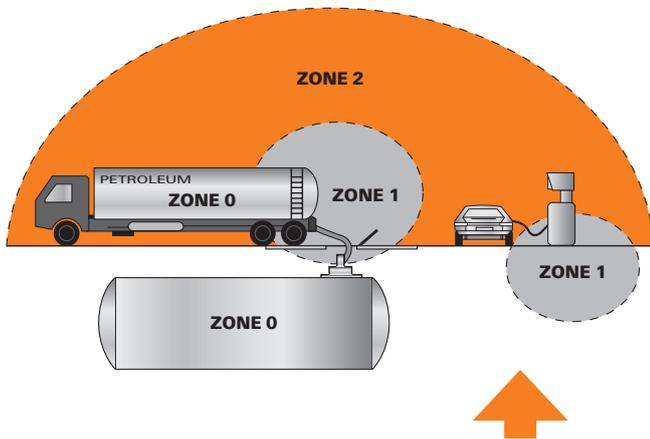


Pressure-resistant encapsulated enclosures are designed for devices where sparks are generated or which have hot surfaces which are a source of ignition during normal operation. Similarly, industrial components for use in potentially explosive atmospheres are often made suitable by encapsulating them in a pressure-resistant enclosure which otherwise could not be used.

The surrounding possibly explosive atmosphere can enter the enclosure and will produce an internal explosion during the equipment's lifespan.

The enclosure must therefore be stable enough to ensure that it is not deformed or destroyed by the pressure created. All connections of the enclosure are sized so that they cannot transmit an explosion from inside to the surrounding atmosphere. These connections are known as ignition gaps.

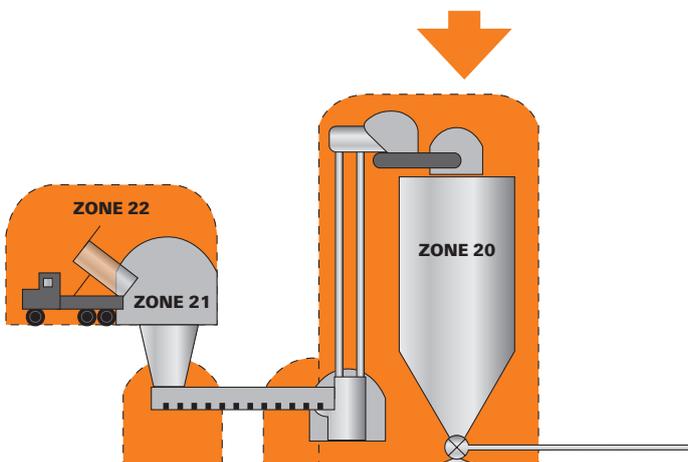
# Area classification



### Gas groups

IIA	e.g. Propane
IIB	e.g. Etyhlene
IIC	e.g. Hydrogen

Equipment group acc. to directive 2014/34/EU	Equipment category acc. to directive 2014/34/EU	Classification of hazardous areas acc. to directive 1999/92/EG	Group acc. to IEC/EN 60079-0	Combustible materials	Equipment protection level (EPL acc. to IEC/EN 60079-0)
I Mining	M1	very high level of protection; remain functional at occurrence of Ex-atmosphere		Methane, Carbon dust	Ma
	M2	high level of protection; de-energized at occurrence of Ex-atmosphere			Mb
II Other industries (except mining)	1	very high level of protection; save even in an event of rare incidents	0	Gases, Vapours, Mists (G)	Ga
	2	high level of protection; save even in an event of predictable failures	1		Gb
	3	normal level of protection; save during normal operation	2		Gc
II Other industries (except mining)	1	very high level of protection; save even in an event of rare incidents	20	Dust (D)	Da
	2	high level of protection; save even in an event of predictable failures	21		Db
	3	normal level of protection; save during normal operation	22		Dc



### Dust groups

IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

# Types of Protection

## Types of protection for electrical equipment in explosive gas atmospheres

Type of protection	Symbol	Main application	Norm
increased safety	eb	junction boxes, control stations for installing Ex-components (with a different type of protection), squirrel-cage motors, light fittings	IEC 60079-7 EN 60079-7 ISA 60079-7
flameproof enclosures	db	switchgears, control stations, indicating equipment, control systems, motors, transformers, heating equipment, light fittings	IEC 60079-1 EN 60079-1 ISA 60079-1
pressurized enclosures	pxb pyb pzc	switchgear and control cabinets, analysers, large motors	IEC 60079-2 EN 60079-2 ISA 60079-2
intrinsic safety	ia ib ic	instrumentation technology, fieldbus technology, sensors, actuators [Ex ib] = associated electrical apparatus - installation in the safe area	IEC 60079-11 EN 60079-11 ISA 60079-11
		intrinsically safe systems	IEC 60079-25 EN 60079-25
		FISCO: fieldbus intrinsically-safe concept	IEC 60079-27 EN 60079-27 ISA 60079-27
oil immersion	ob	transformers, starting resistors	IEC 60079-6 EN 60079-6 ISA 60079-6
powder filling	qb	sensors, display units, electronic ballasts, transmitters	IEC 60079-5 EN 60079-5 ISA 60079-5
encapsulation	ma mb mc	switchgear with small capacity, control and signalling units, display units, sensors	IEC 60079-18 EN 60079-18 ISA 60079-18
type of protection "n"	nAc nCc nRc	all electrical equipment for Zone 2 nA = non-sparking device nC = sparking devices and components nL = energy limited apparatus nR = restricted breathing enclosures	IEC 60079-15 EN 60079-15 ISA 60079-15
optical radiation	op_a	op is = inherently safe optical radiation	IEC 60079-28 EN 60079-28
	op_b	op pr = protected optical radiation	
	op_c	op sh = optical radiation interlock	

## Types of protection for electrical equipment in explosive dust atmospheres

Type of protection	Symbol	Main application	Norm
protection by enclosures	ta	switchgear, control stations, junction boxes, control boxes, motors, light fittings	IEC 60079-31 EN 60079-31 ISA 60079-31
	tb		
	tc		
pressurization	pb	switchgear and control cabinets, motors	IEC 60079-2 EN 60079-2 ISA 60079-2
	pc		
intrinsic safety	ia	instrumentation technology, fieldbus technology, sensors, actuators [Ex ib] = associated electrical apparatus - installation in the safe area	IEC 60079-11 EN 60079-11 ISA 60079-11
	ib		
	ic		
encapsulation	ma	switchgear with small capacity, control and signalling units, display units, sensors	IEC 60079-18 EN 60079-18 ISA 60079-18
	mb		
	mc		

# Temperature class

Classification of the maximum surface temperatures into temperature classes for electrical equipment of group II

Temperature class ATEX/IECEX	Temperature class NEC/UL (AEx)	Maximum surface temperature	
T1	T1	450 °C	842 °F
T2	T2	300 °C	572 °F
	T2A	280 °C	536 °F
	T2B	260 °C	500 °F
	T2C	230 °C	446 °F
T3	T2D	215 °C	419 °F
	T3	200 °C	392 °F
	T3A	180 °C	356 °F
	T3B	165 °C	329 °F
T4	T3C	160 °C	320 °F
	T4	135 °C	275 °F
	T4A	120 °C	248 °F
T5	T5	100 °C	212 °F
	T6	85 °C	185 °F
IEC/DIN EN 60079-0	NEC500ff	°C	°F

# Certifications worldwide

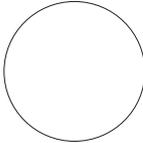
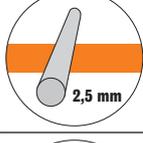
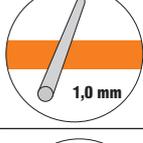
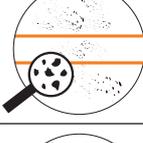


# IP class of protection to DIN EN 60529

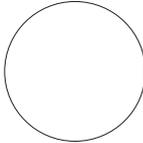
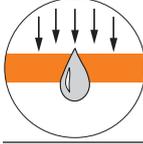
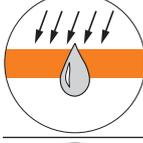
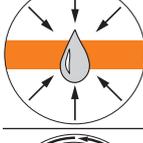
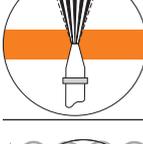
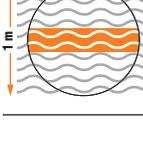
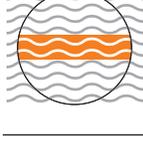
The ingress protection class or IP rating is indicated by a code consisting of the two letters IP and two digits representing the class of protection.

Example: **IP 65**  
 | |  
 2nd digit: protection from liquids  
 1st digit: protection from solid bodies

## Protection against intrusion of external particle matter (1st digit)

Code digit		
0		No protection
1		Protection against ingress of large solid bodies with diameter > 50 mm. (Protection to prevent dangerous parts being touched with the back of the hand.)
2		Protection against ingress of large solid bodies with diameter > 12.5 mm. (Protection to prevent dangerous parts being touched with the fingers.)
3		Protection against ingress of large solid bodies with diameter > 2.5 mm. (Protection to prevent dangerous parts being touched with a tool.)
4		Protection against ingress of large solid bodies with diameter > 1 mm. (Protection to prevent dangerous parts being touched with a piece of wire.)
5		Protection against harmful deposits of dust, which cannot enter in an amount sufficient to interfere with satisfactory operation.
6		Complete protection against ingress of dust.

## Protection against penetration of liquids (2nd digit)

Code digit		
0		No protection
1		Protection against drops of condensed water falling vertically.
2		Protection against drops of liquid falling at an angle of 15° with respect to the vertical.
3		Protection against drops of liquid falling at an angle of 60° with respect to the vertical.
4		Protection against liquids splashed from any direction.
5		Protection against water jets projected by a nozzle from any direction.
6		Protection against water from heavy sea on ships' decks.
7		Protection against immersion in water under defined conditions of pressure and time.
8		Protection against indefinite immersion in water under defined conditions of pressure (which must be agreed between manufacturer and user and must be more adverse than number 7).

# Definition of the protection degrees according to NEMA, UL and CSA

Type	NEMA	UL	CSA
Designation	National Electrical Manufacturers Association NEMA 250-1991	Underwriters Laboratories Inc. UL 50 und UL 508	Canadian Standards Association CSA-C22.2 No. 94-M91
<b>Type 1</b>	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure for general use. Protection against accidental contact with live components.
<b>Type 2</b>	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure for indoor use. Protection against non-corrosive drops/splashes of liquid and foreign bodies.
<b>Type 3</b>	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
<b>Type 3R</b>	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
<b>Type 3S</b>	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure for indoor or outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.
<b>Type 4</b>	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, snow, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
<b>Type 4X</b>	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
<b>Type 6</b>	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.
<b>Type 12</b>	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid drips, without pre-formed openings.
<b>Type 13</b>	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid sprays including oil and coolants.



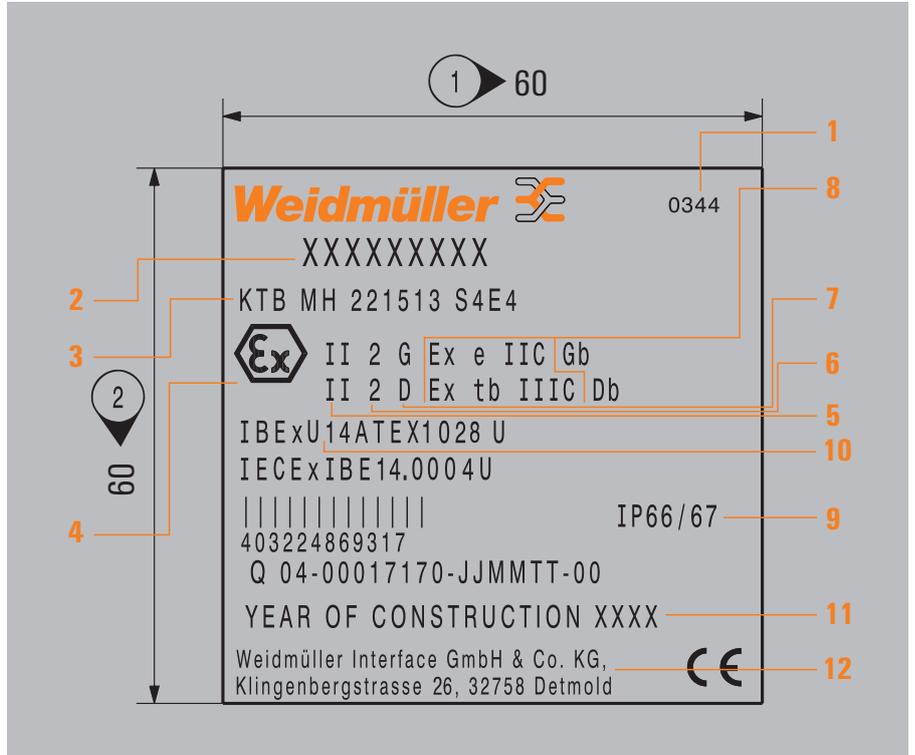
Cross-section	No. of conductors	Cable ø approx. mm	Metric cable glands				PG						
1.5 mm <sup>2</sup> AWG 16	2	8.0 - 11.0	12	16	20	9	11	13.5	16				
	3	8.7 - 11.0	16	20	25	9	11	13.5	16				
	4	9.7 - 11.8	16	20	25	9	11	13.5	16				
	5	10.8 - 13.0		20	25		11	13.5	16				
	6	10.8 - 14.2		20	25		11	13.5	16				
	7	10.8 - 14.2		20	25		11	13.5	16				
	8	13.2 - 16.6			25	32		13.5	16	21			
	11	13.6 - 16.8			25	32		13.5	16	21			
	12	17.6 - 16.8			25	32		13.5	16	21			
	14	14.4 - 17.6			25	32			16	21			
	16	15.8 - 18.4			25	32			16	21			
	18	16.6 - 19.2			25	32			21	29			
	20	17.4 - 20.0			25	32	40		21	29			
	25	20.2 - 23.0				32	40		21	29			
	32	23.8 - 24.5					40			29	36		
	34	22.6 - 25.4					40			29	36		
	42	25.8 - 29.0					40	50		29	36		
	50	27.0 - 30.2					40	50		29	36		
	56	27.8 - 31.0					40	50		29	36		
	61	28.6 - 31.8					40	50			36		
80	33.0 - 36.4						50	63		36	42		
90	34.6 - 37.6						50	63		36	42		
100	37.8 - 41.4						50	63			42		
2.5 mm <sup>2</sup> AWG 12-14	2	9.8 - 12.8	16	20	25	9	11	13.5	16				
	3	10.6 - 13.4		20	25		11	13.5	16				
	4	11.7 - 14.4		20	25		11	13.5	16				
	5	13.0 - 16.4		20	25	32		13.5	16	21			
	6	13.3 - 16.7			25	32		13.5	16	21			
	7	13.3 - 16.7			25	32		13.5	16	21			
	8	17.4 - 20.8			25	32	40			21	29		
	11	18.0 - 20.6			25	32	40			21	29		
	16	20.6 - 23.4				32	40			21	29		
	18	21.7 - 24.5					40				29	36	
	25	26.4 - 29.6					40	50			29	36	
	34	31.3 - 33.1					40	50				36	42
	50	37.0 - 39.4						50	63			42	
61	39.0 - 41.5						50	63			42		
4 mm <sup>2</sup> AWG 10-12	2	10.7 - 14.1	20	25		11	13.5	16	21				
	4	13.0 - 16.4		25	32		13.5	16	21				
	5	14.3 - 17.7		25	32		16	21					
	7	16.2 - 19.6		25	32				21	29	36		
	11	ca. 24.5				40				29	36		

**Note:**

The values can differ between manufacturers. These figures should be considered as rough guidelines.

# Ratings plate of an Ex-certified empty enclosure

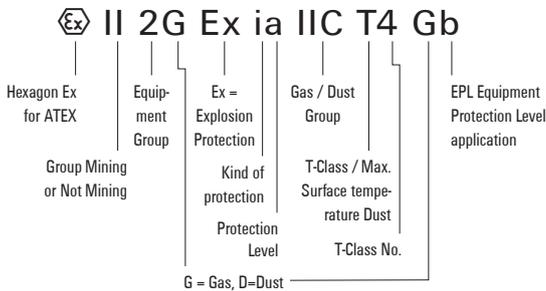
- 1 Number of the notified body
- 2 Part No.
- 3 Part designation
- 4 Ex marking
- 5 Equipment group
- 6 Device category
- 7 • G Gas (gas)  
• D flammable dust
- 8 Explosion protection type
- 9 IP ingress protection class (DIN EN 60529)
- 10 EC type-examination certificate
- 11 Year of manufacture
- 12 Name and address of manufacturer



# Type label for enclosure assemblies

- 1 Certification conditions and logo
- 2 Name and address of manufacturer
- 3 Approval number
- 4 Part designation
- 5 Part No.
- 6 Serial number
- 7 Year of Construction
- 8 IP ingress protection class
- 9 Ambient temperature
- 10 Approval number
- 11 Ex marking

Example:



**Weidmüller**

Weidmüller Interface GmbH & Co. KG 2  
 Klingenbergstr. 26 – D 32758 Detmold

4 Type: Klippon TB MH 303020  
 5 P/N: 9876543219  
 6 S/N: XA-DE-A-0000  
 7 Year of Construction: 2018

8 IP 66

Rated voltage: 600 [V]      Cable size: 4 [mm<sup>2</sup>]  
 Rated current: 21 [A]      9 T amb: - 20 °C ... + 55 °C

11 Class I Zone 1 AEx e IIC T4 Gb

**LISTED**  
 Junction Box for HAZ. LOC.  
 E223792  
 3

NEMA TYPE: 4x

---

W A R N I N G - DO NOT OPEN WHEN ENERGIZED

**Weidmüller**

Weidmüller Interface GmbH & Co. KG 2  
 Klingenbergstr. 26 – D 32758 Detmold

4 Type: Klippon TB MH 303020  
 5 P/N: 9876543219  
 6 S/N: XA-DE-A-0000  
 7 Year of Construction: 2018

8 IP 66

Rated voltage: 600 [V]      Cable size: 4 [mm<sup>2</sup>]  
 Rated current: 21 [A]      9 T amb: - 20 °C ... + 55 °C

10 IExU14ATEX1050  
 11 II 2G Ex eb IIC T4 Gb

10 IECEx IBE 14.0013  
 11 Ex eb IIC T4 Gb

0344

---

W A R N I N G - DO NOT OPEN WHEN ENERGIZED



# Index

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KEBIQL404020S2N1 AL	8000090366	C.76
KEBIQL404020S2N1 AL	8000090366	C.76
KEBIQL504020S2NO AL	8000133640	C.68
KEBIQL504020S2NO AL	8000133640	C.78
KEBIQL604020S2NO AL	8000133641	C.68
KEBIQL604020S2NO AL	8000133641	C.79
KEBIQL606020S2NO AL	8000133642	C.68
KEBIQL606020S2NO AL	8000133642	C.80
KEBIQL806020S2NO AL	8000133643	C.68
KEBIQL806020S2NO AL	8000133643	C.81
KISC M3X20.5/10 EK4	0303000000	D.22
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KISC M3X20.5/10 EK4	0303000000	D.25
KISC M3X20.5/10 EK4	0303000000	D.27
KISC M3X20.5/10 EK4	0303000000	D.28
KISC M3X20.5/10 EK4	0303000000	D.29
KISC M3X20.5/10 EK4	0303000000	D.30
KLIPPON BDX M20 B	2519520000	E.41
KLIPPON BDX M20 S	2519500000	E.41
KLIPPON BDX M20X15 S	2519570000	C.130
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KLIPPON BDX M20X15 S	2519570000	C.150
KLIPPON BDX M20X15 S	2519570000	C.151
KLIPPON BDX M20X15 S	2519570000	C.152
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KLIPPON BDX M20X15 S	2519570000	C.154
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KLIPPON BDX M20X15 S	2519570000	C.161
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KTB FS 262615 S2B2 TUBEBOX SAKK 10	8000080477	D.9
KTB FS 262615 S2N2 TRAINBOX SMALL	8000080478	D.10
KTB FS 262615 S2N2 TRAINBOX SMALL	8000080478	D.16
KTB FS 302915 S2N2 ANGLEDBOX EDGE HV	8000092462	D.6
KTB FS 302915 S2N2 ANGLEDBOX EDGE HV	8000092462	D.16
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KTB FS 563518 S2B1 TRACKBOX EQP	8000080481	D.14
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KTB GP 62X220V CD S4 PE	8000114891	C.44
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KTB GP 91X220V CD S4 PE	8000114897	C.51
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KTB GP 91X220V AB S4 6MM	1256380000	C.26
KTB GP 91X220V AB S4 6MM	2023160000	C.21
KTB GP 91X220V AB S4 PE	2023160000	C.26
KTB GP 91X220V AB S4 PE	1256320000	C.22
KTB GP 91X220V AB S4 PE	1256320000	C.27
KTB GP 91X220V AB S4 PE	2023100000	C.22
KTB GP 91X220V AB S4 PE	2023100000	C.27
KTB GP 91X3015 AB S4 6MM	1256430000	C

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
KTb MH 553520 S4E3	1195280000	C.16	KTb MOpL 4538 S2N H	1257700000	C.34	KTb Ql 553515 S4E1	1200560000	C.55	Mf POK BiG SET	3169940000	C.141
KTb MH 553520 S4E3	1195280000	C.41	KTb MOpL 4562 MSZn	2716100000	C.35	KTb Ql 553515 S4E3	1200580000	C.55	Mf POK BiG SET	3169940000	C.142
KTb MH 624515 S4E1	1195310000	C.16	KTb MOpL 4562 MSZn H	2716110000	C.35	KTb Ql 553520 S4E1	1200620000	C.55	Mf POK BiG SET	3169940000	C.143
KTb MH 624515 S4E1	1195310000	C.42	KTb MOpL 4848 MSZn	1194000000	C.36	KTb Ql 553520 S4E3	1200640000	C.55	Mf POK BiG SET	3169940000	C.144
KTb MH 624515 S4E3	1195330000	C.16	KTb MOpL 4848 MSZn H	1194000000	C.37	KTb Ql 624515 S4E1	1200670000	C.55	Mf POK BiG SET	3169940000	C.145
KTb MH 624515 S4E3	1195330000	C.42	KTb MOpL 4848 MSZn H	2022610000	C.36	KTb Ql 624515 S4E3	1200690000	C.55	Mf POK BiG SET	3169940000	C.146
KTb MH 624520 S4E1	1195360000	C.16	KTb MOpL 4848 MSZn H	2022610000	C.37	KTb Ql 624520 S4E1	1200730000	C.55	MOpL K1 N FE	1905280000	C.107
KTb MH 624520 S4E1	1195360000	C.43	KTb MOpL 4848 S2N	1193870000	C.36	KTb Ql 624520 S4E3	1200750000	C.55	MOpL K11 STAHL	3073000000	C.108
KTb MH 624520 S4E3	1195380000	C.16	KTb MOpL 4848 S2N	1193870000	C.37	KTb Ql 625020 S4E1	8000109912	C.55	MOpL K2 N FE	1905270000	C.109
KTb MH 624520 S4E3	1195380000	C.43	KTb MOpL 4848 S2N H	1257710000	C.36	KTb Ql 625020 S4E3	8000109913	C.55	MOpL K21 STAHL	3073020000	C.110
KTb MH 625020 S4E1	8000108859	C.16	KTb MOpL 4848 S2N H	1257710000	C.37	KTb Ql 626220 S4E1	8000109918	C.55	MOpL K3 N FE	1898210000	C.111
KTb MH 625020 S4E1	8000108859	C.44	KTb MOpL 5040 MSZn	8000110196	C.38	KTb Ql 626220 S4E3	8000109919	C.55	MOpL K31 STAHL	3073040000	C.112
KTb MH 625020 S4E3	8000108860	C.16	KTb MOpL 5040 MSZn H	8000115916	C.38	KTb Ql 765015 S4E1	1200780000	C.55	MOpL K32 STAHL	3073050000	C.113
KTb MH 625020 S4E3	8000108860	C.44	KTb MOpL 5040 S2N H	8000115905	C.38	KTb Ql 765015 S4E3	1200810000	C.55	MOpL K4 STAHL	3073060000	C.114
KTb MH 626220 S4E1	8000108865	C.16	KTb MOpL 5076 MSZn	2716120000	C.39	KTb Ql 765020 S4E1	1200840000	C.55	MOpL K41 STAHL	3073070000	C.115
KTb MH 626220 S4E1	8000108865	C.45	KTb MOpL 5076 MSZn H	2716130000	C.39	KTb Ql 765020 S4E3	1200860000	C.55	MOpL K5 STAHL	3073080000	C.117
KTb MH 626220 S4E3	8000108866	C.16	KTb MOpL 5535 MSZn	1194010000	C.40	KTb Ql 768215 S4E1	8000109921	C.55	MOpL K51 STAHL	3073090000	C.118
KTb MH 626220 S4E3	8000108866	C.45	KTb MOpL 5535 MSZn H	1194010000	C.41	KTb Ql 768215 S4E3	8000109922	C.55	MOpL K62 STAHL	3073100000	C.119
KTb MH 765015 S4E1	1195410000	C.16	KTb MOpL 5535 MSZn H	2022650000	C.40	KTb Ql 916120 S4E1	1200950000	C.55	MOpL K6 STAHL	3073110000	C.120
KTb MH 765015 S4E1	1195410000	C.46	KTb MOpL 5535 MSZn H	2022650000	C.41	KTb Ql 916120 S4E3	1200970000	C.55	MOpL K61 STAHL	3073120000	C.121
KTb MH 765015 S4E3	1195430000	C.16	KTb MOpL 5535 S2N	1193880000	C.40	KTb Ql 987420 S4E1	1201010000	C.55	MOpL K7 STAHL	3073130000	C.122
KTb MH 765015 S4E3	1195430000	C.46	KTb MOpL 5535 S2N H	1257720000	C.41	KTb Ql 987420 S4E3	1201030000	C.55	MOpL K71 STAHL	3073140000	C.123
KTb MH 765020 S4E1	1195460000	C.16	KTb MOpL 5535 S2N H	1257720000	C.42	KTb RNHD 262615 S4E R	1314100000	C.21	MPC 07/12/07 7035	9535170000	C.150
KTb MH 765020 S4E1	1195460000	C.47	KTb MOpL 5535 S2N H	1257720000	C.43	KTb RNHD XX1513V S4E R	1314090000	C.20	MPC 07/12/07 TRSP	9535180000	C.150
KTb MH 765020 S4E3	1195480000	C.16	KTb MOpL 6245 MSZn	1194020000	C.42	KTb RNHD XX2015V S4E R	8000115024	C.23	MPC 07/12/10 7035	9535190000	C.150
KTb MH 765020 S4E3	1195480000	C.47	KTb MOpL 6245 MSZn H	1194020000	C.43	KTb RNHD XX2615 S4E R	1314140000	C.26	MPC 07/12/10 TRSP	9535200000	C.150
KTb MH 766215 S4E1	8000108868	C.16	KTb MOpL 6245 MSZn H	2022670000	C.42	KTb RNHD XX2620 S4E R	1314150000	C.22	MPC 07/12/12 7035	9535210000	C.150
KTb MH 766215 S4E1	8000108868	C.48	KTb MOpL 6245 MSZn H	2022670000	C.43	KTb RNHD XX2620 S4E R	1314150000	C.27	MPC 07/12/12 TRSP	9535220000	C.150
KTb MH 766215 S4E3	8000108869	C.16	KTb MOpL 6245 S2N	1193890000	C.42	KTb RNHD XX3015 S4E R	1314170000	C.30	MPC 12/12/07 7035	9535230000	C.150
KTb MH 766215 S4E3	8000108869	C.48	KTb MOpL 6245 S2N H	1193890000	C.43	KTb RNHD XX3015V S4E R	1314120000	C.24	MPC 12/12/07 TRSP	9535240000	C.150
KTb MH 916120 S4E1	1195560000	C.16	KTb MOpL 6245 S2N H	1257740000	C.42	KTb RNHD XX3020 S4E R	1314180000	C.31	MPC 12/12/10 7035	9535250000	C.150
KTb MH 916120 S4E1	1195560000	C.49	KTb MOpL 6245 S2N H	1257740000	C.43	KTb RNHD XX3020V S4E R	1314130000	C.25	MPC 12/12/10 TRSP	9535260000	C.150
KTb MH 916120 S4E3	1195580000	C.16	KTb MOpL 6250 MSZn	8000110199	C.44	KTb RNHD XX3520 S4E R	8000115026	C.28	MPC 12/12/12 7035	9535270000	C.150
KTb MH 916120 S4E3	1195580000	C.49	KTb MOpL 6250 MSZn H	8000115918	C.44	KTb RNHD XX3815V S4E R	1314190000	C.33	MPC 12/12/12 TRSP	9535280000	C.150
KTb MH 917620 S4E1	8000108877	C.50	KTb MOpL 6250 S2N H	8000115907	C.44	KTb RNHD XX3820V S4E R	1314200000	C.34	MPC 12/17/07 7035	9535290000	C.150
KTb MH 917620 S4E3	8000108879	C.50	KTb MOpL 6262 MSZn	8000110200	C.45	KTb RNHD XX4015V S4E R	8000115028	C.38	MPC 12/17/07 TRSP	9535300000	C.150
KTb MH 919120 S4E1 MOD US	8000108882	C.51	KTb MOpL 6262 MSZn H	8000115919	C.45	KTb RNHD XX4020V S4E R	8000115029	C.32	MPC 12/17/10 7035	9535310000	C.150
KTb MH 919120 S4E3 MOD US	8000108884	C.51	KTb MOpL 6262 S2N H	8000115908	C.45	KTb RNHD XX4515 S4E R	1314270000	C.42	MPC 12/17/10 TRSP	9535320000	C.150
KTb MH 987420 S4E1	1195610000	C.16	KTb MOpL 7650 MSZn	1194030000	C.46	KTb RNHD XX4520 S4E R	1314280000	C.43	MPC 12/17/12 7035	9535330000	C.150
KTb MH 987420 S4E1	1195610000	C.52	KTb MOpL 7650 MSZn H	1194030000	C.47	KTb RNHD XX4815 S4E R	1314220000	C.36	MPC 12/17/12 TRSP	9535340000	C.150
KTb MH 987420 S4E3	1195630000	C.16	KTb MOpL 7650 MSZn H	2022680000	C.46	KTb RNHD XX4820 S4E R	1314230000	C.37	MPC 12/17/15 7035	9535350000	C.150
KTb MH 987420 S4E3	1195630000	C.52	KTb MOpL 7650 S2N	2022680000	C.47	KTb RNHD XX5020V S4E R	8000115032	C.44	MPC 12/17/15 TRSP	9535360000	C.150
KTb MOpL 2215 MSZn	1193930000	C.20	KTb MOpL 7650 S2N H	1193900000	C.46	KTb RNHD XX6120 S4E R	1314330000	C.49	MPC 17/17/07 7035	9535370000	C.150
KTb MOpL 2215 MSZn H	2022050000	C.20	KTb MOpL 7650 S2N	1193900000	C.47	KTb RNHD XX6215 S4E R	8000115033	C.48	MPC 17/17/07 TRSP	9535380000	C.150
KTb MOpL 2215 S2N	1193810000	C.20	KTb MOpL 7650 S2N H	1257750000	C.46	KTb RNHD XX6220 S4E R	8000115034	C.45	MPC 17/17/10 7035	9535390000	C.150
KTb MOpL 2215 S2N H	1257650000	C.20	KTb MOpL 7650 S2N H	1257750000	C.47	KTb RNHD XX7420 S4E R	1314340000	C.52	MPC 17/17/10 TRSP	9535400000	C.150
KTb MOpL 2626 MSZn	1193950000	C.21	KTb MOpL 7662 MSZn	8000110201	C.48	KTb RNHD XX7620V S4E R	8000115036	C.50	MPC 17/17/12 7035	9535410000	C.150
KTb MOpL 2626 MSZn H	1193950000	C.22	KTb MOpL 7662 MSZn H	8000115920	C.48	KTb RNHD XX9120 S4E R	8000115037	C.51	MPC 17/17/15 7035	9535420000	C.150
KTb MOpL 2626 MSZn H	2022060000	C.21	KTb MOpL 7662 S2N H	8000115909	C.48	KTb RLQl 100503054B1 LL1	2698400000	C.58	MPC 17/17/15 TRSP	9535430000	C.150
KTb MOpL 2626 MSZn H	2022060000	C.22	KTb MOpL 9161 MSZn	1194040000	C.49	KTb RLQl 100503054B1 LL1	2698400000	C.60	MPC 17/25/07 7035	9535450000	C.150
KTb MOpL 2626 S2N	1193820000	C.21	KTb MOpL 9161 MSZn H	2022470000	C.49	KTb RLQl 125804054B1 LL1	2698420000	C.58	MPC 17/25/10 7035	9535470000	C.150
KTb MOpL 2626 S2N H	1257660000	C.21	KTb MOpL 9161 S2N	1193910000	C.49	KTb RLQl 125804054B1 LL1	2698420000	C.60	MPC 17/25/10 TRSP	9535480000	C.150
KTb MOpL 2626 S2N H	1257660000	C.22	KTb MOpL 9161 S2N H	1257760000	C.49	KTb RLQl 1501005054B1 LL1	2698430000	C.58	MPC 17/25/15 7035	9535490000	C.150
KTb MOpL 2626 S2N H	1257660000	C.21	KTb MOpL 9176 MSZn	8000116040	C.50	KTb RLQl 1501005054B1 LL1	2698430000	C.61	MPC 17/25/15 TRSP	9535500000	C.150
KTb MOpL 3020 MSZn	8000110193	C.23	KTb MOpL 9176 MSZn H	8000115921	C.50	KTb RLNH01005054B LL1	2698540000	C.61			
KTb MOpL 3020 MSZn H	8000115913	C.23	KTb MOpL 9176 S2N	8000115931	C.50	KTb RLNRH0503054B LL1	2698520000	C.60			
KTb MOpL 3020 S2 H	8000115902	C.23	KTb MOpL 9176 S2N H	8000115910	C.50	KTb RLNRH0804054B LL1	2698530000	C.60			
KTb MOpL 3020 S2N	8000115923	C.23	KTb MOpL 9191 MSZn	8000116041	C.51						
KTb MOpL 3030 MSZn	1193960000	C.24	KTb MOpL 9191 MSZn H	8000115922	C.51						
KTb MOpL 3030 MSZn H	1193960000	C.25	KTb MOpL 9191 S2N	8000115932	C.51						
KTb MOpL 3030 MSZn H	2022190000	C.24	KTb MOpL 9191 S2N H	8000115911	C.51	LKSc M6X8 A2 TX30	2704960000	C.70	PEBz M10 BR SET	1277220000	C.114
KTb MOpL 3030 MSZn H	2022190000	C.25	KTb MOpL 9874 MSZn H	1194050000	C.52	LKSc M6X8 A2 TX30	2704960000	C.71	PEBz M10 BR SET	1277220000	C.115
KTb MOpL 3030 S2N	1193830000	C.24	KTb MOpL 9874 MSZn H	2022760000	C.52	LKSc M6X8 A2 TX30	2704960000	C.72	PEBz M10 BR SET	1277220000	C.116
KTb MOpL 3030 S2N H	1193830000	C.25	KTb MOpL 9874 S2N	1193920000	C.52	LKSc M6X8 A2 TX30	2704960000	C.73	PEBz M10 BR SET	1277220000	C.117
KTb MOpL 3030 S2N H	1257670000	C.24	KTb MOpL 9874 S2N H	1257770000	C.52	LKSc M6X8 A2 TX30	2704960000	C.74	PEBz M10 BR SET	1277220000	C.118
KTb MOpL 3030 S2N H	1257670000	C.25	KTb Ql 221513 S4E1	1199860000	C.55	LKSc M6X8 A2 TX30	2704960000	C.75	PEBz M10 BR SET	1277220000	C.119
KTb MOpL 3526 MSZn	1193970000	C.26	KTb Ql 221513 S4E3	1199880000	C.55	LKSc M6X8 A2 TX30	2704960000	C.76	PEBz M10 BR SET	1277220000	C.120
KTb MOpL 3526 MSZn H	1193970000	C.27	KTb Ql 262615 S4E1	1199910000	C.55	LKSc M6X8 A2 TX30	2704960000	C.77	PEBz M10 BR SET	1277220000	C.121
KTb MOpL 3526 MSZn H	2022310000	C.26	KTb Ql 262615 S4E3	1199930000	C.55	LKSc M6X8 A2 TX30	2704960000	C.78	PEBz M10 BR SET	1277220000	C.122
KTb MOpL 3526 MSZn H	2022310000	C.27	KTb Ql 262620 S4E1	1199960000	C.55	LKSc M6X8 A2 TX30	2704960000	C.79	PEBz M10 BR SET	1277220000	C.123
KTb MOpL 3526 S2N	1193840000	C.26	KTb Ql 262620 S4E3	1199980000	C.55	LKSc M6X8 A2 TX30	2704960000	C.80	PEBz M10 BR SET	1277220000	C.124
KTb MOpL 3526 S2N H	1193840000	C.27	KTb Ql 302015 S4E1	8000109885	C.55	LKSc M6X8 A2 TX30	2704960000	C.81	PEBz M10 BR SET	1277220000	C.125
KTb MOpL 3526 S2N H	1257680000	C.26	KTb Ql 302015 S4E3	8000109886	C.55	LKSc M6X8 A2 TX30	2704960000	C.82	PEBz M10 BR SET	1277220000	C.126
KTb MOpL 3526 S2N H	1257680000	C.27	KTb Ql 303015 S4E1								

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PEBZ M10 KTB S4 SET	1192690000	C.33	PEBZ M6 S4 SET	1283430000	C.121	SD T20 TR X 100	2749520000	C.109	SKMUS M50-W	1185730000	E.28
PEBZ M10 KTB S4 SET	1192690000	C.34	PEBZ M6 S4 SET	1283430000	C.122	SD T20 TR X 100	2749520000	C.110	SKMUS M63-W	1185740000	E.28
PEBZ M10 KTB S4 SET	1192690000	C.35	PEBZ M6 S4 SET	1283430000	C.123	SD T20 TR X 100	2749520000	C.111	SP M6 10 S2	0935110000	C.20
PEBZ M10 KTB S4 SET	1192690000	C.36	PEBZ M6 S4 SET	1283430000	C.124	SD T20 TR X 100	2749520000	C.112	SP M6 10 S2	0935110000	C.21
PEBZ M10 KTB S4 SET	1192690000	C.37	PEBZ M6 S4 SET	1283430000	C.125	SD T20 TR X 100	2749520000	C.113	SP M6 10 S2	0935110000	C.22
PEBZ M10 KTB S4 SET	1192690000	C.38	PEBZ M6 S4 SET	1283430000	C.130	SD T20 TR X 100	2749520000	C.114	SP M6 10 S2	0935110000	C.23
PEBZ M10 KTB S4 SET	1192690000	C.39	PEBZ M6 S4 SET	1283430000	C.131	SD T20 TR X 100	2749520000	C.115	SP M6 10 S2	0935110000	C.24
PEBZ M10 KTB S4 SET	1192690000	C.40	PEBZ M6 S4 SET	1283430000	C.132	SD T20 TR X 100	2749520000	C.116	SP M6 10 S2	0935110000	C.25
PEBZ M10 KTB S4 SET	1192690000	C.41	PEBZ M6 S4 SET	1283430000	C.133	SD T20 TR X 100	2749520000	C.117	SP M6 10 S2	0935110000	C.26
PEBZ M10 KTB S4 SET	1192690000	C.42	PEBZ M6 S4 SET	1283430000	C.134	SD T20 TR X 100	2749520000	C.118	SP M6 10 S2	0935110000	C.27
PEBZ M10 KTB S4 SET	1192690000	C.43	PEBZ M6 S4 SET	1283430000	C.135	SD T20 TR X 100	2749520000	C.119	SP M6 10 S2	0935110000	C.28
PEBZ M10 KTB S4 SET	1192690000	C.44	PEBZ M6 S4 SET	1283430000	C.136	SD T20 TR X 100	2749520000	C.120	SP M6 10 S2	0935110000	C.30
PEBZ M10 KTB S4 SET	1192690000	C.45	PEBZ M6 S4 SET	1283430000	C.137	SD T20 TR X 100	2749520000	C.121	SP M6 10 S2	0935110000	C.31
PEBZ M10 KTB S4 SET	1192690000	C.46	PEBZ M6 S4 SET	1283430000	C.138	SD T20 TR X 100	2749520000	C.122	SP M6 10 S2	0935110000	C.32
PEBZ M10 KTB S4 SET	1192690000	C.47	PEBZ M6 S4 SET	1283430000	C.139	SD T20 TR X 100	2749520000	C.123	SP M6 10 S2	0935110000	C.33
PEBZ M10 KTB S4 SET	1192690000	C.48	PEBZ M6 S4 SET	1283430000	C.140	SD T20 TR X 100	2749520000	C.124	SP M6 10 S2	0935110000	C.34
PEBZ M10 KTB S4 SET	1192690000	C.49	PEBZ M6 S4 SET	1283430000	C.141	SD T20 TR X 100	2749520000	C.125	SP M6 10 S2	0935110000	C.36
PEBZ M10 KTB S4 SET	1192690000	C.50	PEBZ M6 S4 SET	1283430000	C.142	SDIS SLIM 1.2X6.5X150	2749640000	C.71	SP M6 10 S2	0935110000	C.37
PEBZ M10 KTB S4 SET	1192690000	C.51	PEBZ M6 S4 SET	1283430000	C.143	SDIS SLIM 1.2X6.5X150	2749640000	C.74	SP M6 10 S2	0935110000	C.38
PEBZ M10 KTB S4 SET	1192690000	C.52	PEBZ M6 S4 SET	1283430000	C.144	SDIS SLIM 1.2X6.5X150	2749640000	C.78	SP M6 10 S2	0935110000	C.40
PEBZ M10 S4 SET	1283440000	C.114	PEBZ M6 S4 SET	1283430000	C.145	SDIS SLIM 1.2X6.5X150	2749640000	C.79	SP M6 10 S2	0935110000	C.41
PEBZ M10 S4 SET	1283440000	C.115	PEBZ M6 S4 SET	1283430000	C.146	SDIS SLIM 1.2X6.5X150	2749640000	C.80	SP M6 10 S2	0935110000	C.42
PEBZ M10 S4 SET	1283440000	C.116	POK MOPL 0808	9510570000	C.130	SDIS SLIM 1.2X6.5X150	2749640000	C.81	SP M6 10 S2	0935110000	C.43
PEBZ M10 S4 SET	1283440000	C.117	POK MOPL 0811	9510680000	C.131	SDIS SLIM 1.2X6.5X150	2749640000	C.84	SP M6 10 S2	0935110000	C.44
PEBZ M10 S4 SET	1283440000	C.118	POK MOPL 0816	9510680000	C.132	SDIS SLIM 1.2X6.5X150	2749640000	C.85	SP M6 10 S2	0935110000	C.45
PEBZ M10 S4 SET	1283440000	C.119	POK MOPL 0819	9510690000	C.133	SDIS SLIM 1.2X6.5X150	2749640000	C.86	SP M6 10 S2	0935110000	C.46
PEBZ M10 S4 SET	1283440000	C.120	POK MOPL 0823	8000170953	C.134	SDIS SLIM 1.2X6.5X150	2749640000	C.87	SP M6 10 S2	0935110000	C.47
PEBZ M10 S4 SET	1283440000	C.121	POK MOPL 1212	9510590000	C.135	SDIS SLIM 1.2X6.5X150	2749640000	C.88	SP M6 10 S2	0935110000	C.48
PEBZ M10 S4 SET	1283440000	C.122	POK MOPL 1222	9510600000	C.136	SDIS SLIM 1.2X6.5X150	2749640000	C.89	SP M6 10 S2	0935110000	C.49
PEBZ M10 S4 SET	1283440000	C.123	POK MOPL 1616	9510610000	C.137	SDIS SLIM 1.2X6.5X150	2749640000	C.90	SP M6 10 S2	0935110000	C.50
PEBZ M10 S4 SET	1283440000	C.124	POK MOPL 1626	9510620000	C.138	SDIS SLIM 1.2X6.5X150	2749640000	C.91	SP M6 10 S2	0935110000	C.51
PEBZ M10 S4 SET	1283440000	C.125	POK MOPL 1636	9510630000	C.139	SDIS SLIM 1.2X6.5X150	2749640000	C.92	SP M6 10 S2	0935110000	C.52
PEBZ M10 S4 SET	1283440000	C.126	POK MOPL 1656	9510710000	C.140	SDIS SLIM 1.2X6.5X150	2749640000	C.93	SP M6 15 MSZLN	3896100000	C.70
PEBZ M10 S4 SET	1283440000	C.131	POK MOPL 2525	9510640000	C.141	SDIS SLIM 1.2X6.5X150	2749640000	C.94	SP M6 15 MSZLN	3896100000	C.71
PEBZ M10 S4 SET	1283440000	C.132	POK MOPL 2525	9510640000	C.142	SFNS5 VKMU M5 SW15	0433500000	D.22	SP M6 15 MSZLN	3896100000	C.72
PEBZ M10 S4 SET	1283440000	C.133	POK MOPL 2540	9510650000	C.143	SFNS5 VKMU M5 SW15	0433500000	D.23	SP M6 15 MSZLN	3896100000	C.73
PEBZ M10 S4 SET	1283440000	C.134	POK MOPL 2540	9510650000	C.144	SKMU EMV M12	1777610000	E.27	SP M6 15 MSZLN	3896100000	C.74
PEBZ M10 S4 SET	1283440000	C.135	POK MOPL 2560	9510660000	C.145	SKMU EMV M16	1777620000	E.27	SP M6 15 MSZLN	3896100000	C.75
PEBZ M10 S4 SET	1283440000	C.136	POK MOPL 4040	9510670000	C.146	SKMU EMV M20	1777630000	E.27	SP M6 15 MSZLN	3896100000	C.76
PEBZ M10 S4 SET	1283440000	C.137				SKMU EMV M25	1777640000	E.27	SP M6 15 MSZLN	3896100000	C.77
PEBZ M10 S4 SET	1283440000	C.138				SKMU EMV M32	1777650000	E.27	SP M6 15 MSZLN	3896100000	C.78
PEBZ M10 S4 SET	1283440000	C.139				SKMU EMV M40	1777660000	E.27	SP M6 15 MSZLN	3896100000	C.79
PEBZ M10 S4 SET	1283440000	C.140				SKMU EMV M50	1777670000	E.27	SP M6 15 MSZLN	3896100000	C.80
PEBZ M10 S4 SET	1283440000	C.141				SKMU EMV M63	1777680000	E.27	SP M6 15 MSZLN	3896100000	C.81
PEBZ M10 S4 SET	1283440000	C.142	QL 2 SAKK10	9502650000	D.22	SKMU M12 - K GR	1772440000	E.24	SP M6 15 MSZLN	3896100000	C.84
PEBZ M10 S4 SET	1283440000	C.143	QL 2 SAKK10	9502650000	D.23	SKMU M12 K SW	1806540000	E.25	SP M6 15 MSZLN	3896100000	C.85
PEBZ M10 S4 SET	1283440000	C.143	QL 2 SAKK10	9502650000	D.25	SKMU M12 MS	1772360000	E.26	SP M6 15 MSZLN	3896100000	C.86
PEBZ M10 S4 SET	1283440000	C.144	QL 2 SAKK10	9502650000	D.27	SKMU M16 - K GR	1772450000	E.24	SP M6 15 MSZLN	3896100000	C.87
PEBZ M10 S4 SET	1283440000	C.145	QL 2 SAKK10	9502650000	D.28	SKMU M16 K SW	1736920000	E.25	SP M6 15 MSZLN	3896100000	C.88
PEBZ M10 S4 SET	1283440000	C.146	QL 2 SAKK10	9502650000	D.29	SKMU M16 MS	1736990000	E.26	SP M6 15 MSZLN	3896100000	C.89
PEBZ M6 BR SET	1277250000	C.107	QL 2 SAKK10	9502650000	D.30	SKMU M20 - K GR	1772460000	E.24	SP M6 15 MSZLN	3896100000	C.90
PEBZ M6 BR SET	1277250000	C.108				SKMU M20 K SW	1736930000	E.25	SP M6 15 MSZLN	3896100000	C.91
PEBZ M6 BR SET	1277250000	C.109				SKMU M20 MS	1737000000	E.26	SP M6 15 MSZLN	3896100000	C.92
PEBZ M6 BR SET	1277250000	C.110				SKMU M25 - K GR	1772470000	D.22	SP M6 15 MSZLN	3896100000	C.93
PEBZ M6 BR SET	1277250000	C.111	SAKK 10	9502610000	D.22	SKMU M25 - K GR	1772470000	D.24	SP M6 15 MSZLN	3896100000	C.94
PEBZ M6 BR SET	1277250000	C.112	SAKK 10	9502610000	D.23	SKMU M25 - K GR	1772470000	D.27	SP M6 15 S2	0935120000	C.20
PEBZ M6 BR SET	1277250000	C.113	SAKK 10	9502610000	D.24	SKMU M25 - K GR	1772470000	D.29	SP M6 15 S2	0935120000	C.21
PEBZ M6 BR SET	1277250000	C.114	SAKK 10	9502610000	D.25	SKMU M25 - K GR	1772470000	E.24	SP M6 15 S2	0935120000	C.22
PEBZ M6 BR SET	1277250000	C.115	SAKK 10	9502610000	D.27	SKMU M25 K SW	1736940000	E.25	SP M6 15 S2	0935120000	C.23
PEBZ M6 BR SET	1277250000	C.116	SAKK 10	9502610000	D.28	SKMU M25 MS	1737010000	E.26	SP M6 15 S2	0935120000	C.24
PEBZ M6 BR SET	1277250000	C.117	SAKK 10	9502610000	D.29	SKMU M32 - K GR	1772480000	D.23	SP M6 15 S2	0935120000	C.25
PEBZ M6 BR SET	1277250000	C.118	SAKK 10	9502610000	D.30	SKMU M32 - K GR	1772480000	D.25	SP M6 15 S2	0935120000	C.26
PEBZ M6 BR SET	1277250000	C.119	SD FIXING SET	1285200000	C.20	SKMU M32 - K GR	1772480000	D.28	SP M6 15 S2	0935120000	C.27
PEBZ M6 BR SET	1277250000	C.120	SD FIXING SET	1285200000	C.21	SKMU M32 - K GR	1772480000	D.30	SP M6 15 S2	0935120000	C.28
PEBZ M6 BR SET	1277250000	C.121	SD FIXING SET	1285200000	C.22	SKMU M32 - K GR	1772480000	E.24	SP M6 15 S2	0935120000	C.30
PEBZ M6 BR SET	1277250000	C.122	SD FIXING SET	1285200000	C.23	SKMU M32 K SW	1736950000	E.25	SP M6 15 S2	0935120000	C.31
PEBZ M6 BR SET	1277250000	C.123	SD FIXING SET	1285200000	C.24	SKMU M32 MS	1737020000	E.26	SP M6 15 S2	0935120000	C.32
PEBZ M6 BR SET	1277250000	C.124	SD FIXING SET	1285200000	C.25	SKMU M40 - K GR	1772490000	E.24	SP M6 15 S2	0935120000	C.33
PEBZ M6 BR SET	1277250000	C.125	SD FIXING SET	1285200000	C.26	SKMU M40 K SW	1736960000	E.25	SP M6 15 S2	0935120000	C.34
PEBZ M6 BR SET	1277250000	C.130	SD FIXING SET	1285200000	C.27	SKMU M40 MS	1737030000	E.26	SP M6 15 S2	0935120000	C.36
PEBZ M6 BR SET	1277250000	C.131	SD FIXING SET	1285200000	C.28	SKMU M50 - K GR	1772500000	E.24	SP M6 15 S2	0935120000	C.37
PEBZ M6 BR SET	1277250000	C.132	SD FIXING SET	1285200000	C.29	SKMU M50 MS	1737040000	E.26	SP M6 15 S2	0935120000	C.38
PEBZ M6 BR SET	1277250000	C.133	SD FIXING SET	1285200000	C.30	SKMU M63 - K GR	1772510000	E.24	SP M6 15 S2	0935120000	C.40
PEBZ M6 BR SET	1277250000	C.134	SD FIXING SET	1285200000	C.31	SKMU M63 MS	1737050000	E.26	SP M6 15 S2	0935120000	C.41
PEBZ M6 BR SET	1277250000	C.135	SD FIXING SET	1285200000	C.32	SKMU PG 13,5-K GR	1697470000	E.24	SP M6 15 S2	0935120000	C.42
PEBZ M6 BR SET	1277250000	C.136	SD FIXING SET	1285200000	C.33	SKMU PG12-K GR	1697460000	E.24	SP M6 15 S2	0935120000	C.43
PEBZ M6 BR SET	1277250000	C.137	SD FIXING SET	1285200000	C.34	SKMU PG11-MS	1694090000	E.26	SP M6 15 S2	0935120000	C.44
PEBZ M6 BR SET	1277250000	C.138	SD FIXING SET	1285200000	C.35	SKMU PG13,5-MS	1694100000	E.26	SP M6 15 S2	0935120000	C.45
PEBZ M6 BR SET	1277250000	C.139	SD FIXING SET	1285200000	C.36	SKMU PG16-K GR	1697480000	E.24	SP M6 15 S2	0935120000	C.46
PEBZ M6 BR SET	1277250000	C.140	SD FIXING SET	1285200000	C.37	SKMU PG16-MS	1694110000	E.26	SP M6 15 S2	0935120000	C.47
PEBZ M6 BR SET	1277250000	C.141	SD FIXING SET	1285200000	C.38	SKMU PG21-K GR	1698220000	E.24	SP M6 15 S2	0935120000	C.48
PEBZ M6 BR SET	1277250000	C.142	SD FIXING SET	1285200000	C.39	SKMU PG21-MS</					



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TS35X7.5 ST KT87662 HDR	8000116116	C.48
TS35X7.5 ST KT87662 VER	8000116106	C.48
TS35X7.5 ST KT89161 HDR	8000006729	C.49
TS35X7.5 ST KT89161 VER	8000006718	C.49
TS35X7.5 ST KT89176 HDR	8000116117	C.50
TS35X7.5 ST KT89176 VER	8000116107	C.50
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TS35X7.5 ST KT89874 HDR	8000006730	C.52
TS35X7.5 ST KT89874 VER	8000006719	C.52
TS35X7.5 ST POK 1222	8000037568	C.136
TS35X7.5 ST POK 1626	8000003909	C.138
TS35X7.5 ST POK 1636	8000003910	C.139
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TS35X7.5 ST POK 2560	8000003914	C.145
TS35X7.5 ST POK 4040	8000003913	C.143
TS35X7.5 ST POK 4040	8000003913	C.144
TS35X7.5 ST POK 4040	8000003913	C.146

## V

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VG 11-MS68	1569080000	E.7
VG 13.5-MS68	1569090000	E.7
VG 13.5-K68	1569000000	E.6
VG 16 HQ K68 11.5-15.5	1016080000	E.13
VG 16 HQ K68 4-6.5	2715990000	E.13
VG 16 HQ K68 6.5-9.5	1273890000	E.13
VG 16 HQ K68 9-13	1016070000	E.13
VG 16-K68	1569010000	E.6
VG 16-MS68	1569100000	E.7
VG 21 HQ EMV68 11-15.5	1016120000	E.13
VG 21 HQ EMV68 14-18	1016130000	E.13
VG 21 HQ MS68 11.5-15.5	1016100000	E.13
VG 21 HQ MS68 14-18	1016110000	E.13
VG 21 HQ MS68 9-13	1016090000	E.13
VG 21-K68	1569020000	E.6
VG 21-MS68	1569110000	E.7
VG 29-K68	1569030000	E.6
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VG 36-MS68	1569130000	E.7
VG 7-K68	1568970000	E.6
VG 7-MS68	1569060000	E.7
VG 9-K68	1568980000	E.6
VG 9-MS68	1569070000	E.7
VG M12 - MS 68	1772200000	E.7
VG M12 EMV4 MS 3-6.5	2435170000	E.9
VG M12 EXE 4-6.5 CR7J G4	2721930000	E.22
VG M12 EXE 4-6.5 S17J G4	2722070000	E.23
VG M12 EXI 4-6.5 CR7J G4	2722210000	E.22
VG M12 EXI 4-6.5 S17J G4	2722350000	E.23
VG M12-1/K68	1772280000	E.6
VG M16 - K 68	1772290000	E.6
VG M16 - MS 68	1772210000	E.7
VG M16 EMV4 MS 5-10	2435140000	E.9
VG M16 EXE 5-8 CR7J G4	2721940000	E.22
VG M16 EXE 5-8 S17J G4	2722080000	E.23
VG M16 EXE 6-10 CR7J G4	2721950000	E.22
VG M16 EXE 6-10 S17J G4	2722090000	E.23
VG M16 EXI 5-8 CR7J G4	2722220000	E.22
VG M16 EXI 5-8 S17J G4	2722360000	E.23
VG M16 EXI 6-10 CR7J G4	2722300000	E.22
VG M16 EXI 6-10 S17J G4	2722370000	E.23
VG M16-1/K68	1909860000	E.6
VG M16-1/MS68	1909910000	E.7
VG M20 - K 68	2811470000	E.6
VG M20 - MS 68	1772220000	E.7
VG M20 EMV4 MS 6-12	2435150000	E.9
VG M20 EMV4 MS 8-14	2435160000	E.9
VG M20 EXE 11-14 CR7J G4	2721980000	E.22
VG M20 EXE 11-14 S17J G4	2722120000	E.23
VG M20 EXE 7-12 CR7J G4	2721960000	E.22
VG M20 EXE 7-12 S17J G4	2722100000	E.23
VG M20 EXE 7-13 CR7J G4	2721970000	E.22
VG M20 EXE 7-13 S17J G4	2722110000	E.23
VG M20 EXI 11-14 CR7J G4	2722260000	E.22
VG M20 EXI 11-14 S17J G4	2722400000	E.23
VG M20 EXI 7-12 CR7J G4	2722240000	E.22
VG M20 EXI 7-12 S17J G4	2722380000	E.23
VG M20 EXI 7-13 CR7J G4	2722250000	E.22
VG M20 EXI 7-13 S17J G4	2722390000	E.23
VG M20-1/K68	1772300000	E.6
VG M25 - K 68	1772310000	E.6
VG M25 - MS 68	1772300000	E.7
VG M25 EMV4 MS 10-18	2435170000	E.9
VG M25 EXE 12-17 CR7J G4	2721990000	E.22
VG M25 EXE 12-17 S17J G4	2722130000	E.23
VG M25 EXE 14-18 CR7J G4	2722000000	E.22
VG M25 EXE 14-18 S17J G4	2722140000	E.23
VG M25 EXI 12-17 CR7J G4	2722270000	E.22
VG M25 EXI 12-17 S17J G4	2722410000	E.23
VG M25 EXI 14-18 CR7J G4	2722280000	E.22
VG M25 EXI 14-18 S17J G4	2722420000	E.23
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VG M25-K67	1909710000	D.29
VG M32 - K 68	1772320000	E.6
VG M32 - MS 68	1772240000	E.7
VG M32 EMV4 MS 16-25	2435180000	E.9
VG M32 EXE 16-21 CR7J G4	2722010000	E.22
VG M32 EXE 16-21 S17J G4	2722150000	E.23
VG M32 EXE 19-25 CR7J G4	2722020000	E.22
VG M32 EXE 19-25 S17J G4	2722160000	E.23
VG M32 EXI 16-21 CR7J G4	2722290000	E.22
VG M32 EXI 16-21 S17J G4	2722430000	E.23
VG M32 EXI 19-25 CR7J G4	2722300000	E.22
VG M32 EXI 19-25 S17J G4	2722440000	E.23
VG M32-1/K68	1909880000	E.6
VG M32-1/MS68	1909930000	E.7
VG M32-K67	1909720000	D.23
VG M32-K67	1909720000	D.25
VG M32-K67	1909720000	D.28
VG M32-K67	1909720000	D.30
VG M40 - K 68	1772330000	E.6
VG M40 - MS 68	1772250000	E.7
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VG M40 EXE 20-28 CR7J G4	2722030000	E.22
VG M40 EXE 20-28 S17J G4	2722170000	E.23
VG M40 EXE 23-32 CR7J G4	2722040000	E.22
VG M40 EXE 23-32 S17J G4	2722180000	E.23
VG M40 EXI 20-28 CR7J G4	2722310000	E.22
VG M40 EXI 20-28 S17J G4	2722450000	E.23
VG M40 EXI 23-32 CR7J G4	2722320000	E.22
VG M40 EXI 23-32 S17J G4	2722460000	E.23
VG M40-1/K68	1909890000	E.6
VG M40-1/MS68	1909940000	E.7
VG M50 - K 68	1772340000	E.6
VG M50 - MS 68	1772260000	E.7
VG M50-1/MS68	1909950000	E.7
VG M63 - MS 68	1772270000	E.7
VG M63-1/K68	1772350000	E.6
VG16 HQ K68 11.5-15.5SH	1045540000	E.13
VG16 HQ K68 9-12SH	1045530000	E.13
VGM12-SS 68 KB 3-6.5	1009840000	E.11
VGM16-SS 68 KB 4-8	1009850000	E.11
VGM20-SS 68 KB 6-12	1009860000	E.11
VGM25-MS68 11-20 BG	1193600000	E.8
VGM25-MS68 EMC 11-20SET	1463720000	E.10
VGM25-SS 68 KB 10-14	1009870000	E.11
VGM25-SS68 11-20 BG	1193570000	E.12
VGM32-MS68 15-25 BG	1193610000	E.8
VGM32-MS68 EMC 15-25SET	1463730000	E.10
VGM32-SS 68 KB 13-18	1009880000	E.11
VGM32-SS68 15-25 BG	1193580000	E.12
VGM40-MS68 20-32 BG	1193620000	E.8
VGM40-SS 68 KB 18-25	1009890000	E.11
VGM40-SS68 20-32 BG	1193590000	E.12
VGM40-1-MS68 20-32 BG	1205890000	E.8
VGM40-1-SS68 20-32 BG	1205920000	E.12
VGM50-SS 68 KB 22-32	1009900000	E.11
VH 12.5/5/3/4	0300800000	D.22
VH 12.5/5/3/4	0300800000	D.23
VH 12.5/5/3/4	0300800000	D.24
VH 12.5/5/3/4	0300800000	D.25
VH 12.5/5/3/4	0300800000	D.27
VH 12.5/5/3/4	0300800000	D.28
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VP 16-K54	0295060000	E.33
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VP 42-K54	0501360000	E.33
VP 48-K54	1719260000	E.33
VP 7-K54	1719250000	E.33
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VP M12 EX SI 7J	2066710000	E.37
VP M12 K54	1776930000	E.33
VP M12-MS65	1777720000	E.34
VP M12/10 EX CR 7J BK	2978890000	E.38
VP M16 EX SI 7J	2066720000	E.37
VP M16 K54	1776920000	E.33
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VP M16-MS65	1777730000	E.34
VP M16/15 EX CR 7J BK	2978900000	E.38
VP M20 EX SI 7J	2066730000	E.37
VP M20 K54	1776910000	E.33
VP M20-EX W	1188480000	E.36
VP M20-MS65	1777740000	E.34
VP M20/15 EX CR 7J BK	2978910000	E.38
VP M25 EX SI 7J	2066740000	E.37
VP M25 K54	1776900000	E.33
VP M25-EX W	1188490000	E.36
VP M25-MS65	1777750000	E.34
VP M25/15 EX CR 7J BK	2978920000	E.38
VP M32 EX SI 7J	2066750000	E.37
VP M32 K54	1776940000	E.33
VP M32-EX W	1188500000	E.36
VP M32-MS65	1777760000	E.34

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VP M40 EX SI 7J	2066760000	E.37
VP M40 K54	1776950000	E.33
VP M40-EX W	1188510000	E.36
VP M40-MS65	1777770000	E.34
VP M40/18 EX CR 7J BK	2978930000	E.38
VP M50 EX SI 7J	2066770000	E.37
VP M50 K54	1776960000	E.33
VP M50-EX W	1188520000	E.36
VP M50-MS65	1777780000	E.34
VP M50/18 EX CR 7J BK	2978940000	E.38
VP M63 EX SI 7J	2066940000	E.37
VP M63 K54	1776970000	E.33
VP M63-EX W	1188530000	E.36
VP M63-MS65	1777790000	E.34
VP M63/18 EX CR 7J BK	2978950000	E.38
VP NPT 1 EX 7J BK	2978960000	E.38
VP NPT 1/2 EX 7J BK	2978960000	E.38
VP NPT 3/4 EX 7J BK	2978970000	E.38
VP NPT1-1/2-EX W	1188580000	E.36
VP NPT1-1/4-EX W	1188570000	E.36
VP NPT1-EX W	1188560000	E.36
VP NPT1/2-EX W	1188540000	E.36
VP NPT2-1/2-EX W	1188600000	E.36
VP NPT2-EX W	1188590000	E.36
VP NPT3/4-EX W	1188550000	E.36
VP-HEX M16-EX W	1218940000	E.35
VP-HEX M20-EX W	1218950000	E.35
VP-HEX M25-EX W	1218960000	E.35
VP-HEX M32-EX W	1218970000	E.35
VP-HEX M40-EX W	1218980000	E.35
VP-HEX M50-EX W	1218990000	E.35
VP-HEX M63-EX W	1219010000	E.35
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VPS M20-EX W	1188700000	E.36
VPS M25-EX W	1188710000	E.36
VPS M32-EX W	1188720000	E.36
VPS M40-EX W	1188730000	E.36
VPS M50-EX W	1188740000	E.36
VPS M63-EX W	1188750000	E.36
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VPS NPT1-EX W	1188780000	E.36
VPS NPT1/2-EX W	1188760000	E.36
VPS NPT2-1/2-EX W	1188820000	E.36
VPS NPT2-EX W	1188810000	E.36
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VPS-HEX M16-EX W	1219020000	E.35
VPS-HEX M20-EX W	1219030000	E.35
VPS-HEX M25-EX W	1219040000	E.35
VPS-HEX M32-EX W	1219050000	E.35
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VPS-HEX M50-EX W	1219070000	E.35
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WS 8/8 MM WS	2007170000	D.23
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1252750000	DOHA KTB A5 S2 R	C.48
1252750000	DOHA KTB A5 S2 R	C.49
1252750000	DOHA KTB A5 S2 R	C.50
1252750000	DOHA KTB A5 S2 R	C.51
1252750000	DOHA KTB A5 S2 R	C.52
1252780000	DOHA KTB A6 S2 R	C.21
1252780000	DOHA KTB A6 S2 R	C.22
1252780000	DOHA KTB A6 S2 R	C.23
1252780000	DOHA KTB A6 S2 R	C.24
1252780000	DOHA KTB A6 S2 R	C.25
1252780000	DOHA KTB A6 S2 R	C.26
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1252780000	DOHA KTB A6 S2 R	C.28
1252780000	DOHA KTB A6 S2 R	C.29
1252780000	DOHA KTB A6 S2 R	C.30
1252780000	DOHA KTB A6 S2 R	C.31
1252780000	DOHA KTB A6 S2 R	C.32
1252780000	DOHA KTB A6 S2 R	C.33
1252780000	DOHA KTB A6 S2 R	C.34
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1252780000	DOHA KTB A6 S2 R	C.37
1252780000	DOHA KTB A6 S2 R	C.38
1252780000	DOHA KTB A6 S2 R	C.39
1252780000	DOHA KTB A6 S2 R	C.40
1252780000	DOHA KTB A6 S2 R	C.41
1252780000	DOHA KTB A6 S2 R	C.42
1252780000	DOHA KTB A6 S2 R	C.43
1252780000	DOHA KTB A6 S2 R	C.44
1252780000	DOHA KTB A6 S2 R	C.45
1252780000	DOHA KTB A6 S2 R	C.46
1252780000	DOHA KTB A6 S2 R	C.47
1252780000	DOHA KTB A6 S2 R	C.48
1252780000	DOHA KTB A6 S2 R	C.49
1252780000	DOHA KTB A6 S2 R	C.50
1252780000	DOHA KTB A6 S2 R	C.51
1252780000	DOHA KTB A6 S2 R	C.52
1253230000	DESC M6X14 KTB SET	C.20
1253230000	DESC M6X14 KTB SET	C.21
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1253230000	DESC M6X14 KTB SET	C.23
1253230000	DESC M6X14 KTB SET	C.24
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1253230000	DESC M6X14 KTB SET	C.28
1253230000	DESC M6X14 KTB SET	C.29
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1253230000	DESC M6X14 KTB SET	C.50
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1256270000	KTB GP XX1513V AB S4 6MM	C.20
1256280000	KTB GP 22X113V CD S4 6MM	C.20
1256290000	KTB GP XX2615 AB S4 6MM	C.21
1256310000	KTB GP 26X115 CD S4 6MM	C.21
1256320000	KTB GP XX2620 AB S4 6MM	C.22
1256320000	KTB GP XX2620 AB S4 6MM	C.27
1256330000	KTB GP 26X20 CD S4 6MM	C.22
1256340000	KTB GP XX3015V AB S4 6MM	C.24
1256360000	KTB GP XX3020V AB S4 6MM	C.25
1256370000	KTB GP 30X20V CD S4 6MM	C.25
1256380000	KTB GP XX2615 AB S4 6MM	C.26
1256430000	KTB GP XX3015 AB S4 6MM	C.30
1256440000	KTB GP 40X115 CD S4 6MM	C.30
1256450000	KTB GP XX3020 AB S4 6MM	C.31
1256470000	KTB GP 40X20 CD S4 6MM	C.31
1256480000	KTB GP XX3815V AB S4 6MM	C.33
1256490000	KTB GP 45X115V CD S4 6MM	C.33
1256510000	KTB GP XX3820V AB S4 6MM	C.34
1256520000	KTB GP 45X20V CD S4 6MM	C.34
1256530000	KTB GP XX4815 AB S4 6MM	C.36
1256540000	KTB GP 48X115 CD S4 6MM	C.36
1256550000	KTB GP XX4820 AB S4 6MM	C.37
1256560000	KTB GP 48X20 CD S4 6MM	C.37
1256580000	KTB GP 55X115 CD S4 6MM	C.40
1256610000	KTB GP 55X20 CD S4 6MM	C.41
1256620000	KTB GP XX4515 AB S4 6MM	C.42
1256640000	KTB GP XX4520 AB S4 6MM	C.43
1256730000	KTB GP XX6120 AB S4 6MM	C.49
1256750000	KTB GP XX7420 AB S4 6MM	C.52
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1257640000	TPSDHA KTB 100X25 S2 2R	C.25
1257640000	TPSDHA KTB 100X25 S2 2R	C.26
1257640000	TPSDHA KTB 100X25 S2 2R	C.27
1257640000	TPSDHA KTB 100X25 S2 2R	C.28
1257640000	TPSDHA KTB 100X25 S2 2R	C.29
1257640000	TPSDHA KTB 100X25 S2 2R	C.30
1257640000	TPSDHA KTB 100X25 S2 2R	C.31
1257640000	TPSDHA KTB 100X25 S2 2R	C.33
1257640000	TPSDHA KTB 100X25 S2 2R	C.34
1257640000	TPSDHA KTB 100X25 S2 2R	C.35
1257640000	TPSDHA KTB 100X25 S2 2R	C.36
1257640000	TPSDHA KTB 100X25 S2 2R	C.37
1257640000	TPSDHA KTB 100X25 S2 2R	C.39
1257640000	TPSDHA KTB 100X25 S2 2R	C.40
1257640000	TPSDHA KTB 100X25 S2 2R	C.41
1257640000	TPSDHA KTB 100X25 S2 2R	C.42
1257640000	TPSDHA KTB 100X25 S2 2R	C.43
1257640000	TPSDHA KTB 100X25 S2 2R	C.46
1257640000	TPSDHA KTB 100X25 S2 2R	C.47
1257640000	TPSDHA KTB 100X25 S2 2R	C.49
1257640000	TPSDHA KTB 100X25 S2 2R	C.52
1257650000	KTB MOPL 2215 S2N H	C.20
1257660000	KTB MOPL 2626 S2N H	C.21
1257660000	KTB MOPL 2626 S2N H	C.22
1257670000	KTB MOPL 3030 S2N H	C.40
1257670000	KTB MOPL 3030 S2N H	C.24
1257680000	KTB MOPL 3526 S2N H	C.26
1257680000	KTB MOPL 3526 S2N H	C.27
1257680000	KTB MOPL 4030 S2N H	C.30
1257690000	KTB MOPL 4030 S2N H	C.31
1257700000	KTB MOPL 4538 S2N H	C.33
1257700000	KTB MOPL 4538 S2N H	C.36
1257710000	KTB MOPL 4848 S2N H	C.34
1257710000	KTB MOPL 4848 S2N H	C.37
1257720000	KTB MOPL 5535 S2N H	C.40
1257720000	KTB MOPL 5535 S2N H	C.41
1257740000	KTB MOPL 6245 S2N H	C.42
1257740000	KTB MOPL 6245 S2N H	C.43
1257750000	KTB MOPL 7650 S2N H	C.46
1257750000	KTB MOPL 7650 S2N H	C.47
1257760000	KTB MOPL 9161 S2N H	C.49
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1261910000	ADAPS M16-M20-W	E.44
1261920000	ADAPS M20-M16-W	E.44
1261930000	ADAPS M20-M25-W	E.44
1261940000	ADAPS M25-M20-W	E.44
1261950000	ADAPS M25-M32-W	E.44
1261960000	ADAPS M32-M25-W	E.44
1261970000	ADAPS M32-M40-W	E.44
1261980000	ADAPS M40-M32-W	E.44
1261990000	ADAPS M40-M50-W	E.44
1262010000	ADAPS M50-M40-W	E.44
1262020000	ADAPS M16-NPT1/2-W	E.44
1262030000	ADAPS M16-NPT3/4-W	E.44
1262040000	ADAPS M20-NPT1/2-W	E.44
1262050000	ADAPS M20-NPT3/4-W	E.44
1262070000	ADAPS M25-NPT3/4-W	E.44
1262100000	ADAPS M32-NPT1-W	E.44
1262150000	ADAPS M40-NPT1/2-W	E.44
1262730000	ADAP M16-M20-W	E.43
1262740000	ADAP M20-M16-W	E.43
1262750000	ADAP M20-M25-W	E.43
1262760000	ADAP M25-M20-W	E.43
1262770000	ADAP M25-M32-W	E.43
1262780000	ADAP M32-M25-W	E.43
1262790000	ADAP M32-M40-W	E.43
1262800000	ADAP M40-M32-W	E.43
1262810000	ADAP M40-M50-W	E.43
1262830000	ADAP M50-M40-W	E.43
1262840000	ADAP M16-NPT1/2-W	E.43
1262850000	ADAP M16-NPT3/4-W	E.43
1262860000	ADAP M20-NPT1/2-W	E.43
1262870000	ADAP M20-NPT3/4-W	E.43
1262880000	ADAP M25-NPT1/2-W	E.43
1262890000	ADAP M25-NPT3/4-W	E.43
1262900000	ADAP M25-NPT1-W	E.43
1262910000	ADAP M32-NPT3/4-W	E.43
1262930000	ADAP M32-NPT1-W	E.43
1262940000	ADAP M32-NPT1/4-W	E.43
1262950000	ADAP M32-NPT1/2-W	E.43
1262960000	ADAP M40-NPT1-W	E.43
1262970000	ADAP M40-NPT1/4-W	E.43
1262980000	ADAP M40-NPT1/2-W	E.43
1262990000	ADAP M40-NPT2-W	E.43
1263000000	ADAP M50-NPT1/4-W	E.43
1263010000	ADAP M50-NPT1/2-W	E.43
1263030000	ADAP M50-NPT2-W	E.43
1263150000	ADAP NPT1/2-M16-W	E.42
1263170000	ADAP NPT1/2-M20-W	E.42
1263180000	ADAP NPT3/4-M20-W	E.42
1263190000	ADAP NPT3/4-M25-W	E.42
1263200000	ADAP NPT1-M25-W	E.42
1263210000	ADAP NPT1-M32-W	E.42
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1263250000	ADAP NPT1-1/2-M50-W	E.42
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1274150000	GFSC M5X10 TX20 SET	C.21
1274150000	GFSC M5X10 TX20 SET	C.22
1274150000	GFSC M5X10 TX20 SET	C.23
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1283440000	PEBZ M10 S4 SET	C.121
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1283440000	PEBZ M10 S4 SET	C.123
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1283440000	PEBZ M10 S4 SET	C.137
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1283440000	PEBZ M10 S4 SET	C.143
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1283450000	TPSDHA KTB 130X50 S2 R	C.22
1283450000	TPSDHA KTB 130X50 S2 R	C.24
1283450000	TPSDHA KTB 130X50 S2 R	C.25
1283450000	TPSDHA KTB 130X50 S2 R	C.26
1283450000	TPSDHA KTB 130X50 S2 R	C.27
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1283450000	TPSDHA KTB 130X50 S2 R	C.31
1283450000	TPSDHA KTB 130X50 S2 R	C.33
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1283450000	TPSDHA KTB 130X50 S2 R	C.35
1283450000	TPSDHA KTB 130X50 S2 R	C.36
1283450000	TPSDHA KTB 130X50 S2 R	C.37
1283450000	TPSDHA KTB 130X50 S2 R	C.39
1283450000	TPSDHA KTB 130X50 S2 R	C.40
1283450000	TPSDHA KTB 130X50 S2 R	C.41
1283450000	TPSDHA KTB 130X50 S2 R	C.42
1283450000	TPSDHA KTB 130X50 S2 R	C.43
1283450000	TPSDHA KTB 130X50 S2 R	C.46
1283450000	TPSDHA KTB 130X50 S2 R	C.47
1283450000	TPSDHA KTB 130X50 S2 R	C.49
1283450000	TPSDHA KTB 130X50 S2 R	C.52
1285200000	SD FIXING SET	C.20
1285200000	SD FIXING SET	C.21
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1285200000	SD FIXING SET	C.23
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1285200000	SD FIXING SET	C.49
1285200000	SD FIXING SET	C.50
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1305810000	KLIPPON POK 080806	C.130
1305820000	KLIPPON POK 081106	C.128
1305820000	KLIPPON POK 081106	C.131
1305830000	KLIPPON POK 081606	C.128
1305830000	KLIPPON POK 081606	C.132
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1305880000	KLIPPON POK 122209	C.128
1305880000	KLIPPON POK 122209	C.136
1305890000	KLIPPON POK 161609	C.128
1305890000	KLIPPON POK 161609	C.137
1305900000	KLIPPON POK 162609	C.128
1305900000	KLIPPON POK 162609	C.138
1305910000	KLIPPON POK 163609	C.128
1305910000	KLIPPON POK 163609	C.139
1305920000	KLIPPON POK 165609	C.128
1305920000	KLIPPON POK 165609	C.140
1305930000	KLIPPON POK 252512	C.128
1305930000	KLIPPON POK 252512	C.141
1305930000	KLIPPON POK 252512	D.27
1305930000	KLIPPON POK 252512	D.28
1305930000	KLIPPON POK 252512	D.29
1305930000	KLIPPON POK 252512	D.30
1305940000	KLIPPON POK 254012	C.128
1305940000	KLIPPON POK 254012	C.143
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2583760000	CABTITE FR 10/6 BK SET	F.9
2583770000	CABTITE SE 21-22 LRG BK	F.8
2583780000	CABTITE FR 4-1 BK SET	F.9
2583790000	CABTITE SE 20-21 LRG BK	F.8
2583800000	CABTITE FR 24/10 BK	F.10
2583810000	CABTITE SE 19-20 LRG BK	F.8
2583830000	CABTITE SE 18-19 LRG BK	F.8
2583840000	CABTITE SE 17-18 LRG BK	F.8
2583850000	CABTITE SE 16-17 LRG BK	F.8
2583860000	CABTITE SE 15-16 LRG BK	F.8
2583880000	CABTITE SE 14-15 LRG BK	F.8
2583890000	CABTITE CR 24/10 EMV	F.14
2583900000	CABTITE BSE LRG BK	F.8
2583910000	CABTITE CR 16/8 EMV	F.14
2583930000	CABTITE CR 10/6 EMV	F.14
2583950000	CABTITE CR 4/1 EMV	F.14
2583960000	CABTITE SE 15-16 SML BK	F.8
2583980000	CABTITE SE 14-15 SML BK	F.8
2584000000	CABTITE SE 13-14 SML BK	F.8
2584010000	CABTITE LNS M63 BK	F.13
2584020000	CABTITE SE 12-13 SML BK	F.8
2584030000	CABTITE LNS M50 BK	F.13
2584040000	CABTITE SE 11-12 SML BK	F.8
2584050000	CABTITE LNS M40 BK	F.13
2584060000	CABTITE SE 10-11 SML BK	F.8
2584070000	CABTITE LNS M32 BK	F.13
2584080000	CABTITE SE 9-10 SML BK	F.8
2584090000	CABTITE LNS M25 BK	F.13
2584100000	CABTITE LNS M20 BK	F.13
2584120000	CABTITE CGS M63 BK	F.13
2584130000	CABTITE CGS M50 BK	F.13
2584150000	CABTITE CGS M40 BK	F.13
2584160000	CABTITE CGS M32 BK	F.13
2584180000	CABTITE CGS M25 BK	F.13
2584200000	CABTITE CGS M20 BK	F.13
2584210000	CABTITE FRL 24/10 BK	F.10
2584220000	CABTITE FRL 16/8 BK	F.10
2584240000	CABTITE FRL 10/6 BK	F.9
2584260000	CABTITE FRL 4-1 BK	F.9
2584270000	CABTITE GI H BK	F.13
2584290000	CABTITE GI X BK	F.13
2584300000	CABTITE GI T BK	F.13
2584320000	CABTITE GI I BK	F.13
2584330000	CABTITE SE 8-9 SML BK	F.8
2584340000	CABTITE SE 31-32 LRG GY	F.8
2584350000	CABTITE SE 28-29 LRG GY	F.8
2584360000	CABTITE SE 30-31 LRG GY	F.8
2584370000	CABTITE SE 27-28 LRG GY	F.8
2584380000	CABTITE SE 29-30 LRG GY	F.8
2584390000	CABTITE SE 26-27 LRG GY	F.8
2584400000	CABTITE SE 25-26 LRG GY	F.8
2584410000	CABTITE SE 24-25 LRG GY	F.8
2584420000	CABTITE SE 23-24 LRG GY	F.8
2584430000	CABTITE SE 22-23 LRG GY	F.8
2584440000	CABTITE SE 21-22 LRG GY	F.8
2584450000	CABTITE SE 20-21 LRG GY	F.8
2584460000	CABTITE SE 19-20 LRG GY	F.8
2584470000	CABTITE SE 18-19 LRG GY	F.8
2584480000	CABTITE SE 17-18 LRG GY	F.8
2584490000	CABTITE SE 16-17 LRG GY	F.8
2584500000	CABTITE SE 15-16 LRG GY	F.8
2584510000	CABTITE SE 14-15 LRG GY	F.8
2584520000	CABTITE BSE LRG GY	F.8
2584550000	CABTITE SE 15-16 SML GY	F.8
2584560000	CABTITE SE 14-15 SML GY	F.8
2584570000	CABTITE SE 13-14 SML GY	F.8
2584590000	CABTITE SE 12-13 SML GY	F.8
2584600000	CABTITE SE 11-12 SML GY	F.8
2584610000	CABTITE SE 10-11 SML GY	F.8
2584630000	CABTITE SE 9-10 SML GY	F.8
2584650000	CABTITE SE 8-9 SML GY	F.8
2584660000	CABTITE SE 7-8 SML GY	F.8
2584670000	CABTITE SE 7-8 SML BK	F.8
2584680000	CABTITE SE 4-5 SML BK	F.8
2584690000	CABTITE SE 6-7 SML BK	F.8
2584710000	CABTITE SE 5-6 SML BK	F.8
2584730000	CABTITE SE 3-4 SML BK	F.8
2584760000	CABTITE SE 2-3 SML BK	F.8
2584780000	CABTITE SE 1-2 SML BK	F.8
2584790000	CABTITE BSE SML BK	F.8
2584800000	CABTITE SE 2/ASI SML GY	F.8

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2584810000	CABTITE SE 1/ASI SML GY	F.8
2584820000	CABTITE SE 2/8 SML GY	F.8
2584830000	CABTITE SE 2/7 SML GY	F.8
2584840000	CABTITE SE 4/4-5 SML GY	F.8
2584860000	CABTITE SE 4/3-4 SML GY	F.8
2584870000	CABTITE SE 4/2-3 SML GY	F.8
2584890000	CABTITE SE 2/5-6 SML GY	F.8
2584900000	CABTITE SE 2/4-5 SML GY	F.8
2584910000	CABTITE SE 3-3-4 LRG GY	F.8
2584920000	CABTITE SE 32-33 LRG GY	F.8
2595510000	CABTITE SE 33-34 LRG BK	F.8
2595520000	CABTITE SE 34-35 LRG BK	F.8
2595530000	CABTITE SE 34-35 LRG GY	F.8
2630000000		
2635120000	CABTITE SC M5X25 SET	F.9
2635120000	CABTITE SC M5X25 SET	F.10
2635120000	CABTITE SC M5X25 SET	F.11
2635120000	CABTITE SC M5X25 SET	F.12
2637360000	CABTITE TOOL ATSE PA	F.9
2637360000	CABTITE TOOL ATSE PA	F.10
2637360000	CABTITE TOOL ATSE PA	F.11
2637360000	CABTITE TOOL ATSE PA	F.12
2650000000		
2652280000	CABTITE SE 3/5-6 SML BK	F.8
2652290000	CABTITE SE 3/5-6 SML GY	F.8
2652300000	CABTITE BP 2MM PA	F.14
2652310000	CABTITE BP 3MM PA	F.14
2652320000	CABTITE BP 4MM PA	F.14
2652330000	CABTITE BP 5MM PA	F.14
2652340000	CABTITE BP 6MM PA	F.14
2652350000	CABTITE BP 7MM PA	F.14
2652360000	CABTITE BP 8MM PA	F.14
2652370000	CABTITE BP 9MM PA	F.14
2652380000	CABTITE BP 10MM PA	F.14
2652400000	CABTITE BP 12MM PA	F.14
2652410000	CABTITE BP 13MM PA	F.14
2652420000	CABTITE BP 14MM PA	F.14
2652430000	CABTITE BP 17MM PA	F.14
2660000000		
2660200318	KEB MOFT SMALL S4 SET	C.84
2660200318	KEB MOFT SMALL S4 SET	C.85
2660200318	KEB MOFT SMALL S4 SET	C.86
2660200318	KEB MOFT SMALL S4 SET	C.87
2660200318	KEB MOFT SMALL S4 SET	C.88
2660200318	KEB MOFT SMALL S4 SET	C.89
2660200318	KEB MOFT SMALL S4 SET	C.90
2660200318	KEB MOFT SMALL S4 SET	C.91
2660200318	KEB MOFT SMALL S4 SET	C.92
2660200318	KEB MOFT SMALL S4 SET	C.93
2660200318	KEB MOFT SMALL S4 SET	C.94
2690000000		
2698050000	KTB MH 355520 S4E1	C.16
2698050000	KTB MH 355520 S4E1	C.29
2698070000	KTB MH 456220 S4E1	C.16
2698070000	KTB MH 456220 S4E1	C.35
2698090000	KTB MH 507620 S4E1	C.16
2698090000	KTB MH 507620 S4E1	C.39
2698400000	KTBLQL1005030S4B1 LL1	C.60
2698400000	KTBLQL1005030S4B1 LL1	C.58
2698420000	KTBLQL1258040S4B1 LL1	C.58
2698420000	KTBLQL1258040S4B1 LL1	C.60
2698430000	KTBLQL15010050S4B1 LL1	C.58
2698430000	KTBLQL15010050S4B1 LL1	C.61
2698520000	KTBLRNHD5030S4B LL1	C.60
2698530000	KTBLRNHD8040S4B LL1	C.60
2698540000	KTBLRNHD10050S4B LL1	C.61
2700000000		
2704960000	LKSC M6X8 A2 TX30	C.70
2704960000	LKSC M6X8 A2 TX30	C.71
2704960000	LKSC M6X8 A2 TX30	C.72
2704960000	LKSC M6X8 A2 TX30	C.73
2704960000	LKSC M6X8 A2 TX30	C.74
2704960000	LKSC M6X8 A2 TX30	C.75
2704960000	LKSC M6X8 A2 TX30	C.76
2704960000	LKSC M6X8 A2 TX30	C.77
2704960000	LKSC M6X8 A2 TX30	C.78
2704960000	LKSC M6X8 A2 TX30	C.79
2704960000	LKSC M6X8 A2 TX30	C.80
2704960000	LKSC M6X8 A2 TX30	C.81
2704960000	LKSC M6X8 A2 TX30	C.82
2704960000	LKSC M6X8 A2 TX30	C.83
2704960000	LKSC M6X8 A2 TX30	C.84
2704960000	LKSC M6X8 A2 TX30	C.85
2704960000	LKSC M6X8 A2 TX30	C.86
2704960000	LKSC M6X8 A2 TX30	C.87
2704960000	LKSC M6X8 A2 TX30	C.88
2704960000	LKSC M6X8 A2 TX30	C.89
2704960000	LKSC M6X8 A2 TX30	C.90

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2704960000	LKSC M6X8 A2 TX30	C.92
2704960000	LKSC M6X8 A2 TX30	C.93
2704960000	LKSC M6X8 A2 TX30	C.94
2715000000		
2715660000	KTB MOPL 3555 MSZN	C.29
2715990000	VG 16 HQ K68 4-6.5	E.13
2716090000	KTB MOPL 3555 MSZN H	C.29
2716100000	KTB MOPL 4562 MSZN	C.35
2716110000	KTB MOPL 4562 MSZN H	C.35
2716120000	KTB MOPL 5076 MSZN	C.39
2716130000	KTB MOPL 5076 MSZN H	C.39
2720000000		
2721930000	VG M12 EXE 4-6.5 CR7J G4	E.22
2721940000	VG M16 EXE 5-8 CR7J G4	E.22
2721950000	VG M16 EXE 6-10 CR7J G4	E.22
2721960000	VG M20 EXE 7-12 CR7J G4	E.22
2721970000	VG M20 EXE 7-13 CR7J G4	E.22
2721980000	VG M20 EXE 11-14 CR7J G4	E.22
2721990000	VG M25 EXE 12-17 CR7J G4	E.22
2722000000	VG M25 EXE 14-18 CR7J G4	E.22
2722010000	VG M32 EXE 16-21 CR7J G4	E.22
2722020000	VG M32 EXE 19-25 CR7J G4	E.22
2722030000	VG M40 EXE 20-28 CR7J G4	E.22
2722040000	VG M40 EXE 23-32 CR7J G4	E.22
2722070000	VG M12 EXE 4-6.5 SI7J G4	E.23
2722080000	VG M16 EXE 5-8 SI7J G4	E.23
2722090000	VG M16 EXE 6-10 SI7J G4	E.23
2722100000	VG M20 EXE 7-12 SI7J G4	E.23
2722110000	VG M20 EXE 7-13 SI7J G4	E.23
2722120000	VG M20 EXE 11-14 SI7J G4	E.23
2722130000	VG M25 EXE 12-17 SI7J G4	E.23
2722140000	VG M25 EXE 14-18 SI7J G4	E.23
2722150000	VG M32 EXE 16-21 SI7J G4	E.23
2722160000	VG M32 EXE 19-25 SI7J G4	E.23
2722170000	VG M40 EXE 20-28 SI7J G4	E.23
2722180000	VG M40 EXE 23-32 SI7J G4	E.23
2722210000	VG M12 EXE 4-6.5 CR7J G4	E.22
2722220000	VG M16 EXE 5-8 CR7J G4	E.22
2722230000	VG M16 EXE 6-10 CR7J G4	E.22
2722240000	VG M20 EXE 7-12 CR7J G4	E.22
2722250000	VG M20 EXE 7-13 CR7J G4	E.22
2722260000	VG M20 EXE 11-14 CR7J G4	E.22
2722270000	VG M25 EXE 12-17 CR7J G4	E.22
2722280000	VG M25 EXE 14-18 CR7J G4	E.22
2722290000	VG M32 EXE 16-21 CR7J G4	E.22
2722300000	VG M32 EXE 19-25 CR7J G4	E.22
2722310000	VG M40 EXE 20-28 CR7J G4	E.22
2722320000	VG M40 EXE 23-32 CR7J G4	E.22
2722350000	VG M12 EXE 4-6.5 SI7J G4	E.23
2722360000	VG M16 EXE 5-8 SI7J G4	E.23
2722370000	VG M16 EXE 6-10 SI7J G4	E.23
2722380000	VG M20 EXE 7-12 SI7J G4	E.23
2722390000	VG M20 EXE 7-13 SI7J G4	E.23
2722400000	VG M20 EXE 11-14 SI7J G4	E.23
2722410000	VG M25 EXE 12-17 SI7J G4	E.23
2722420000	VG M25 EXE 14-18 SI7J G4	E.23
2722430000	VG M32 EXE 16-21 SI7J G4	E.23
2722440000	VG M32 EXE 19-25 SI7J G4	E.23
2722450000	VG M40 EXE 20-28 SI7J G4	E.23
2722460000	VG M40 EXE 23-32 SI7J G4	E.23
2740000000		
2743540000	CABTITE EP A 24/12 GY	F.17
2743550000	CABTITE EP A 24/14 GY	F.17
2743560000	CABTITE EP A 24/17 GY	F.17
2743570000	CABTITE EP A 24/18 GY	F.17
2743580000	CABTITE EP A 24/19 GY	F.17
2743590000	CABTITE EP A 24/26 GY	F.17
2743600000	CABTITE EP A 24/26 GY	F.17
2743610000	CABTITE EP A 24/48 GY	F.17
2743620000	CABTITE EP A 24/50 GY	F.17
2743630000	CABTITE EP B 24/12 GY	F.17
2743640000	CABTITE EP B 24/14 GY	F.17
2743650000	CABTITE EP B 24/17 GY	F.17
2743660000	CABTITE EP B 24/18 GY	F.17
2743670000	CABTITE EP B 24/19 GY	F.17
2743680000	CABTITE EP B 24/26 GY	F.17
2743690000	CABTITE EP B 24/42 GY	F.17
2743700000	CABTITE EP B 24/48 GY	F.17
2743710000	CABTITE EP B 24/50 GY	F.17
2749520000	SD T20 TR X 100	C.104
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3073020000	MOPL K21 STAHL	C.110
3073040000	MOPL K31 STAHL	C.112
3073050000	MOPL K32 STAHL	C.113
3073060000	MOPL K4 STAHL	C.114
3073070000	MOPL K41 STAHL	C.115
3073080000	MOPL K5 STAHL	C.117
3073090000	MOPL K51 STAHL	C.118
3073100000	MOPL K52 STAHL	C.119
3073110000	MOPL K6 STAHL	C.120
3073120000	MOPL K61 STAHL	C.121
3073130000	MOPL K7 STAHL	C.122
3073140000	MOPL K71 STAHL	C.123

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3169940000	MF POK BIG SET	C.136
3169940000	MF POK BIG SET	C.137
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3169940000	MF POK BIG SET	C.139
3169940000	MF POK BIG SET	C.140
3169940000	MF POK BIG SET	C.141
3169940000	MF POK BIG SET	C.142
3169940000	MF POK BIG SET	C.143
3169940000	MF POK BIG SET	C.144
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3169940000	MF POK BIG SET	C.146

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3420000000	KLIPPON K1	C.102
3421000000	KLIPPON K2	C.102
3422000000	KLIPPON K3	C.102
3423000000	KLIPPON K4	C.102
3424000000	KLIPPON K5	C.102
3425000000	KLIPPON K6	C.102
3426000000	KLIPPON K7	C.102

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3896100000	SP M6 15 MSZN	C.70
3896100000	SP M6 15 MSZN	C.71
3896100000	SP M6 15 MSZN	C.72
3896100000	SP M6 15 MSZN	C.73
3896100000	SP M6 15 MSZN	C.74
3896100000	SP M6 15 MSZN	C.75
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3896100000	SP M6 15 MSZN	C.89
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3896100000	SP M6 15 MSZN	C.93
3896100000	SP M6 15 MSZN	C.94
3896100000	SP M6 15 MSZN	C.95
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3896100000	SP M6 15 MSZN	C.99
3896100000	SP M6 15 MSZN	C.100
3896100000	SP M6 15 MSZN	C.101
3896100000	SP M6 15 MSZN	C.102
3896100000	SP M6 15 MSZN	C.103
3896100000	SP M6 15 MSZN	C.104
3896100000	SP M6 15 MSZN	C.105
3896100000	SP M6 15 MSZN	C.106
3896100000	SP M6 15 MSZN	C.107
3896100000	SP M6 15 MSZN	C.108
3896100000	SP M6 15 MSZN	C.109
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3896100000	SP M6 15 MSZN	C.114
3896100000	SP M6 15 MSZN	C.115
3896100000	SP M6 15 MSZN	C.116
3896100000	SP M6 15 MSZN	C.117
3896100000	SP M6 15 MSZN	C.118
3896100000	SP M6 15 MSZN	C.119
3896100000	SP M6 15 MSZN	C.120
3896100000	SP M6 15 MSZN	C.121
3896100000	SP M6 15 MSZN	C.122
3896100000	SP M6 15 MSZN	C.123

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3896300000	SP M6 30 MSZN	C.84
3896300000	SP M6 30 MSZN	C.85
3896300000	SP M6 30 MSZN	C.86
3896300000	SP M6 30 MSZN	C.87
3896300000	SP M6 30 MSZN	C.88
3896300000	SP M6 30 MSZN	C.89
3896300000	SP M6 30 MSZN	C.90
3896300000	SP M6 30 MSZN	C.91
3896300000	SP M6 30 MSZN	C.92
3896300000	SP M6 30 MSZN	C.93
3896300000	SP M6 30 MSZN	C.94

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5732000000	KLIPPON K0	C.102
5733000000	KLIPPON K11	C.102
5734000000	KLIPPON K21	C.102
5735000000	KLIPPON K31	C.102
5736000000	KLIPPON K61	C.102
5737000000	KLIPPON K71	C.102

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8000003889	TS15X5 ST POK 0808	C.130
8000003890	TS15X5 ST POK 0811	C.131
8000003890	TS15X5 ST POK 0811	C.135
8000003891	TS15X5 ST POK 0816	C.132
8000003892	TS15X5 ST POK 0819	C.133
8000003908	TS35X7.5 ST K52	C.137
8000003909	TS35X7.5 ST POK 1626	C.138
8000003910	TS35X7.5 ST POK 1636	C.139
8000003911	TS35X7.5 ST POK 1656	C.140
8000003912	TS35X7.5 ST POK 2525	C.141
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8000006708	TS35X7.5 ST KTB2215 VER	C.20
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8000006709	TS35X7.5 ST KTB2626 VER	C.22
8000006710	TS35X7.5 ST KTB3030 VER	C.24
8000006710	TS35X7.5 ST KTB3030 VER	C.25
8000006711	TS35X7.5 ST KTB3526 VER	C.26
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8000006712	TS35X7.5 ST KTB4030 VER	C.30
8000006712	TS35X7.5 ST KTB4030 VER	C.31
8000006713	TS35X7.5 ST KTB4538 VER	C.33
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8000006714	TS35X7.5 ST KTB4848 VER	C.36
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8000006715	TS35X7.5 ST KTB5535 VER	C.41
8000006716	TS35X7.5 ST KTB6245 VER	C.42
8000006716	TS35X7.5 ST KTB6245 VER	C.43
8000006717	TS35X7.5 ST KTB7650 VER	C.39
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8000006721	TS35X7.5 ST KTB3526 HOR	C.26
8000006721	TS35X7.5 ST KTB3526 HOR	C.27
8000006722	TS35X7.5 ST KTB3030 HOR	C.24
8000006722	TS35X7.5 ST KTB3030 HOR	C.25
8000006723	TS35X7.5 ST KTB4030 HOR	C.30
8000006723	TS35X7.5 ST KTB4030 HOR	C.31
8000006724	TS35X7.5 ST KTB4538 HOR	C.33
8000006724	TS35X7.5 ST KTB4538 HOR	C.34
8000006725	TS35X7.5 ST KTB4848 HOR	C.36
8000006725	TS35X7.5 ST KTB4848 HOR	C.37
8000006726	TS35X7.5 ST KTB5535 HOR	C.40
8000006726	TS35X7.5 ST KTB5535 HOR	C.41
8000006727	TS35X7.5 ST KTB6245 HOR	C.42
8000006727	TS35X7.5 ST KTB6245 HOR	C.43
8000006728	TS35X7.5 ST KTB7650 HOR	C.39
8000006728	TS35X7.5 ST KTB7650 HOR	C.46
8000006728	TS35X7.5 ST KTB7650 HOR	C.47
8000006729	TS35X7.5 ST KTB9161 HOR	C.49
8000006730	TS35X7.5 ST KTB9874 HOR	C.52
8000032382	TS15X5 ST POK 0823	C.134
8000037568	TS35X7.5 ST POK 1222	C.136
8000052518	KLIPPON POK 252512 M25 E60	D.26
8000052518	KLIPPON POK 252512 M25 E60	D.29
8000052519	KLIPPON STB 4 MS M25 E90	D.21
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8000052636	KLIPPON POK 252512 FH M25 E60	D.26
8000052636	KLIPPON POK 252512 FH M25 E60	D.27
8000054730	KLIPPON POK 252512 M32 E60	D.26
8000054730	KLIPPON POK 252512 M32 E60	D.30
8000054731	KLIPPON POK 252512 FH M32 E60	D.26
8000054731	KLIPPON POK 252512 FH M32 E60	D.28
8000054772	KLIPPON STB 4 MS M32 E90	D.21
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8000054773	KLIPPON STB 4 MS FH M32 E90	D.23
8000073447	TS35X7.5 ST KTB3555 HOR	C.29
8000074117	KEB MOPL 2020 MSZN	C.70
8000074117	KEB MOPL 2020 MSZN	C.82
8000074171	KEB MOPL 3030 MSZN	C.74
8000074171	KEB MOPL 3030 MSZN	C.75
8000074171	KEB MOPL 3030 MSZN	C.76
8000074171	KEB MOPL 3030 MSZN	C.77
8000074171	KEB MOPL 3030 MSZN	C.78
8000074172	KEB MOPL 4030 MSZN	C.75
8000074172	KEB MOPL 4030 MSZN	C.88
8000074173	KEB MOPL 4040 MSZN	C.76
8000074173	KEB MOPL 4040 MSZN	C.89
8000074175	KEB MOPL 5040 MSZN	C.77
8000074175	KEB MOPL 5040 MSZN	C.90
8000074176	KEB MOPL 5050 MSZN	C.78
8000074176	KEB MOPL 5050 MSZN	C.91
8000074178	KEB MOPL 6040 MSZN	C.79
8000074178	KEB MOPL 6040 MSZN	C.92
8000074179	KEB MOPL 8060 MSZN	C.81
8000074179	KEB MOPL 8060 MSZN	C.94
8000074314	KEB MOPL 2020 SZN H	C.70
8000074314	KEB MOPL 2020 SZN H	C.84
8000074316	KEB MOPL 3030 SZN H	C.72
8000074316	KEB MOPL 3030 SZN H	C.73
8000074316	KEB MOPL 3030 SZN H	C.86
8000074316	KEB MOPL 3030 SZN H	C.87
8000074318	KEB MOPL 4030 SZN H	C.75
8000074318	KEB MOPL 4030 SZN H	C.78
8000074319	KEB MOPL 4040 SZN H	C.86
8000074319	KEB MOPL 4040 SZN H	C.89
8000074321	KEB MOPL 5040 SZN H	C.77
8000074321	KEB MOPL 5040 SZN H	C.90
8000074322	KEB MOPL 5050 SZN H	C.78
8000074322	KEB MOPL 5050 SZN H	C.91
8000074324	KEB MOPL 6040 SZN H	C.79
8000074324	KEB MOPL 6040 SZN H	C.92
8000074325	KEB MOPL 8060 SZN H	C.81
8000074325	KEB MOPL 8060 SZN H	C.94
8000075807	DOHA KEB A6 S4B R	C.70
8000075807	DOHA KEB A6 S4B R	C.71
8000075807	DOHA KEB A6 S4B R	C.72
8000075807	DOHA KEB A6 S4B R	C.73
8000075807	DOHA KEB A6 S4B R	C.74
8000075807	DOHA KEB A6 S4B R	C.75
8000075807	DOHA KEB A6 S4B R	C.76
8000075807	DOHA KEB A6 S4B R	C.77
8000075807	DOHA KEB A6 S4B R	C.78
8000075807	DOHA KEB A6 S4B R	C.79
8000075807	DOHA KEB A6 S4B R	C.80
8000075807	DOHA KEB A6 S4B R	C.81
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8000075807	DOHA KEB A6 S4B R	C.83
8000075807	DOHA KEB A6 S4B R	C.84
8000075807	DOHA KEB A6 S4B R	C.85
8000075807	DOHA KEB A6 S4B R	C.86
8000075807	DOHA KEB A6 S4B R	C.87
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8000080482	KT B FS 624515 S2B1 TRACKBOX BIG	D.16
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8000090342	KEBIHS202015S2NO AL	C.84
8000090343	KEBIHS303015S2NO AL	C.82
8000090343	KEBIHS303015S2NO AL	C.86
8000090344	KEBIHS303020S2NO AL	C.82
8000090344	KEBIHS303020S2NO AL	C.87
8000090345	KEBIHS403020S2NO AL	C.82
8000090345	KEBIHS403020S2NO AL	C.88
8000090346	KEBIHS404020S2NO AL	C.82
8000090346	KEBIHS404020S2NO AL	C.89
8000090347	KEBIHS504020S2NO AL	C.82
8000090347	KEBIHS504020S2NO AL	C.90
8000090348	KEBIHS202015S2N1 AL	C.82
8000090348	KEBIHS202015S2N1 AL	C.84
8000090349	KEBIHS303015S2N1 AL	C.82
8000090349	KEBIHS303015S2N1 AL	C.86
8000090351	KEBIHS303020S2N1 AL	C.82
8000090351	KEBIHS303020S2N1 AL	C.87
8000090352	KEBIHS403020S2N1 AL	C.82
8000090352	KEBIHS403020S2N1 AL	C.88
8000090354	KEBIHS404020S2N1 AL	C.82
8000090354	KEBIHS404020S2N1 AL	C.89
8000090355	KEBIHS504020S2N1 AL	C.82
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8000090359	KEBIQL403020S2NO AL	C.68
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8000090360	KEBIQL404020S2NO AL	C.68
8000090360	KEBIQL404020S2NO AL	C.76
8000090361	KEBIQL504020S2NO AL	C.68
8000090361	KEBIQL504020S2NO AL	C.77
8000090362	KEBIQL202015S2N1 AL	C.68
8000090362	KEBIQL202015S2N1 AL	C.70
8000090363	KEBIQL303015S2N1 AL	C.68
8000090363	KEBIQL303015S2N1 AL	C.72
8000090364	KEBIQL303020S2N1 AL	C.68
8000090364	KEBIQL303020S2N1 AL	C.73
8000090365	KEBIQL403020S2N1 AL	C.68
8000090365	KEBIQL403020S2N1 AL	C.75
8000090366	KEBIQL404020S2N1 AL	C.68
8000090366	KEBIQL404020S2N1 AL	C.76
8000090367	KEBIQL504020S2N1 AL	C.68
8000090367	KEBIQL504020S2N1 AL	C.77
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8000108838	KT B MH 353520 S4E1	C.28
8000108839	KT B MH 353520 S4E3	C.16
8000108839	KT B MH 353520 S4E3	C.28
8000108844	KT B MH 404020 S4E1	C.16
8000108844	KT B MH 404020 S4E1	C.32
8000108845	KT B MH 404020 S4E3	C.16
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8000108850	KT B MH 504020 S4E1	C.16
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8000110194	KT B MOP L 3535 MSZ N	C.28
8000110195	KT B MOP L 4040 MSZ N	C.32
8000110196	KT B MOP L 5040 MSZ N	C.38
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8000114130	KT B GP XX3520 AB S4 6MM	C.31
8000114132	KT B GP 35XX20 CD S4 6MM	C.27
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8000114138	KT B GP 40XX20V CD S4 6MM	C.32
8000114138	KT B GP 40XX20V CD S4 6MM	C.38
8000114140	KT B GP 50XX20V CD S4 6MM	C.32
8000114141	KT B GP 62XX20 CD S4 6MM	C.43
8000114141	KT B GP 62XX20 CD S4 6MM	C.44
8000114141	KT B GP 62XX20V AB S4 6MM	C.45
8000114142	KT B GP XX5015V AB S4 6MM	C.46
8000114143	KT B GP XX2015V AB S4 6MM	C.23
8000114145	KT B GP XX5020V AB S4 6MM	C.44
8000114145	KT B GP XX5020V AB S4 6MM	C.47
8000114146	KT B GP XX6215 AB S4 6MM	C.48
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8000114153	KT B GP XX7620V AB S4 6MM	C.50
8000114154	KT B GP XX3515 AB S4 6MM	C.40
8000114887	KT B GP XX2015V AB S4 PE	C.23
8000114888	KT B GP 40XX20V CD S4 PE	C.32
8000114890	KT B GP 50XX20V CD S4 PE	C.38
8000114891	KT B GP 62XX20V CD S4 PE	C.44
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8000114892	KT B GP XX5015V AB S4 PE	C.46
8000114894	KT B GP XX5020V AB S4 PE	C.44
8000114894	KT B GP XX5020V AB S4 PE	C.47
8000114895	KT B GP XX6215 AB S4 PE	C.48
8000114896	KT B GP XX6220 AB S4 PE	C.45
8000114897	KT B GP 91XX20V CD S4 PE	C.50
8000114897	KT B GP 91XX20V CD S4 PE	C.51
8000114898	KT B GP 30XX15V CD S4 PE	C.23
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8000114899	KT B GP XX9120V AB S4 PE	C.51
8000114900	KT B GP XX3515 AB S4 PE	C.40
8000114901	KT B GP 35XX15 CD S4 PE	C.26
8000114902	KT B GP 76XX15V CD S4 PE	C.48
8000114903	KT B GP 76XX20V CD S4 PE	C.47
8000114904	KT B GP XX7620V AB S4 PE	C.50
8000114905	KT B GP XX3520 AB S4 PE	C.28
8000114905	KT B GP XX3520 AB S4 PE	C.41
8000114906	KT B GP 35XX20 CD S4 PE	C.27
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8000115036	KT B RNHD XX7620V S4E R	C.50
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8000115903	KT B MOP L 3535 S2N H	C.28
8000115904	KT B MOP L 4040 S2N H	C.32
8000115905	KT B MOP L 5040 S2N H	C.38
8000115907	KT B MOP L 6250 S2N H	C.44
8000115908	KT B MOP L 6262 S2N H	C.45
8000115909	KT B MOP L 7662 S2N H	C.48
8000115910	KT B MOP L 9176 S2N H	C.50
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8000115916	KT B MOP L 5040 MSZ N H	C.38
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8000115919	KT B MOP L 6262 MSZ N H	C.45
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8000116112	TS35X7.5 ST KT B5040 HOR	C.38
8000116114	TS35X7.5 ST KT B6250 HOR	C.44
8000116115	TS35X7.5 ST KT B6262 HOR	C.45
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8000133627	KEBIHS05020S2NO AL	C.82
8000133627	KEBIHS05020S2NO AL	C.91
8000133628	KEBIHS06020S2NO AL	C.82
8000133628	KEBIHS06020S2NO AL	C.92
8000133629	KEBIHS06020S2NO AL	C.82
8000133629	KEBIHS06020S2NO AL	C.93
8000133630	KEBIHS06020S2NO AL	C.82
8000133630	KEBIHS06020S2NO AL	C.94
8000133638	KEBIQL302015S2NO AL	C.68
8000133638	KEBIQL302015S2NO AL	C.71
8000133639	KEBIQL304020S2NO AL	C.68
8000133639	KEBIQL304020S2NO AL	C.74
8000133640	KEBIQL505020S2NO AL	C.68
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8000133641	KEBIQL604020S2NO AL	C.68
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8000150223	KEB MOP L 8060 MSZ N	C.93
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8000150227	KEB MOP L 6060 S2N H	C.80
8000150227	KEB MOP L 6060 S2N H	C.93
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9535230000	MPC 12/12/07 7035	C.150
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9535260000	MPC 12/12/10 TRSP	C.150
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9535300000	MPC 12/17/07 TRSP	C.150
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9535360000	MPC 12/17/15 TRSP	C.150
9535370000	MPC 17/17/07 7035	C.150
9535380000	MPC 17/17/07 TRSP	C.150
9535390000	MPC 17/17/10 7035	C.150
9535400000	MPC 17/17/10 TRSP	C.150
9535410000	MPC 17/17/12 7035	C.150
9535430000	MPC 17/17/15 7035	C.150
9535440000	MPC 17/17/15 TRSP	C.150
9535450000	MPC 17/25/07 7035	C.150
9535470000	MPC 17/25/10 7035	C.150
9535480000	MPC 17/25/10 TRSP	C.150
9535490000	MPC 17/25/15 7035	C.150
9535500000	MPC 17/25/15 TRSP	C.150
9535680000	FPC 20/20/13 TRSP	C.152
9535690000	FPC 20/20/13 7035	C.152
9535700000	FPC 20/30/13 TRSP	C.152
9535710000	FPC 20/30/13 7035	C.152
9535720000	FPC 20/40/13 TRSP	C.152
9535730000	FPC 20/40/13 7035	C.152
9535740000	FPC 30/30/13 TRSP	C.152
9535750000	FPC 30/30/13 7035	C.152
9535760000	FPC 30/40/13 TRSP	C.152
9535770000	FPC 30/40/13 7035	C.152
9535810000	FPC 40/60/13 7035	C.152
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Weidmüller Interface GmbH & Co. KG  
Klingenbergstraße 26  
32758 Detmold, Germany  
T +49 5231 14-0  
F +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

Personal support can  
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