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# Aluminum wire as the new trend

## Basics for the use of aluminum conductors in terminal blocks

Economic development and industrialization in most emerging countries are causing raw material prices on the world market to rise rapidly. The price ratio between copper and aluminum has risen to a factor of 1:4, which in turn makes aluminum an interesting wire material for many industries.

The ease of handling and the laying of aluminum conductors, which are up to 70 percent lighter, are causing customers to rethink their approach, especially when it comes to conductor cross-sections larger than 16 mm<sup>2</sup>. When connecting such aluminum conductors in electrical connection technology, several general conditions must be met to ensure that the conductor is contacted safely and with long-term stability at the clamping point.

### Aluminum vs. copper

The aluminum conductor can be contacted directly at the clamping point or by using a cable lug or pin socket. When using aluminum conductors in electrical connectivity, the manufacturer-specific specifications regarding processing and contacting must always be observed. Furthermore, three essential physical properties of aluminum play a decisive role, which must always be considered.

First, the electrical conductivity „kappa“ should be mentioned here, which differs by 55 percent at room temperature between copper (56 m/(Ω \* mm<sup>2</sup>)) and aluminum (36 m/(Ω \* mm<sup>2</sup>)). To ensure a comparable current-carrying capacity of the conductor, a higher conductor cross-section is usually selected in practice. Another factor is the so-called modulus of elasticity (e-module), which describes the relationship between strain and stress. Based on the different material properties of copper (130.000 N/mm<sup>2</sup>) and aluminum (70.000 N/mm<sup>2</sup>), the raw materials tend to „long-term flow“ or „set“ under pressure.



**55 %**

#### Conductivity

The electrical conductivity „kappa“ is for copper (56 m/(Ω \* mm<sup>2</sup>)) and aluminum (36 m/(Ω \* mm<sup>2</sup>))



**23 %**

#### Price

The world market price (status December 2022) between copper and aluminum



**30 %**

#### Density

The density of copper is 8920 kg/m<sup>3</sup> and aluminum 2700 kg/m<sup>3</sup>

In other words, this means that the aluminum, under pressure, yields or also „flows“ more over a longer period than is the case with copper. Therefore, when using terminal blocks, always pay attention to the manufacturer-specific specifications regarding monitoring the specified torque. In practice, this is usually around 200 completed working hours.

As a result of the distinctive aluminum properties, a dense layer of aluminum oxides forms on the surface of the conductor after stripping. Connecting an oxidized aluminum conductor without further preparation increases the contact resistance between the conductor and the clamping point, which in turn leads to increased heating. Based on these physical factors, the manufacturer-specific specifications regarding processing and contacting must always be observed.

## Aluminum conductor in the laboratory

Our WPD terminal blocks have been qualified and tested for the connection of solid and sector-shaped aluminum conductors. In addition to the standard IEC 60947-7-1/2, which deals only with copper wires, further test procedures were carried out according to UL 1059, IEC 61238-1 (Class A), CSA C22.2 No.158 and tests in accordance with IEC 61545. IEC 61545 defines the connection of aluminum conductors in terminal connection points of any material as well as the connection of copper conductors to terminal connections made of aluminum.



As this standard only deals with conductor cross-sections up to 35 mm<sup>2</sup>, Weidmüller has taken up the standard, interpreted it and scaled it to larger cross-sections to ensure maximum safety for the connection in our terminal blocks. In a laboratory, the terminal blocks with connected aluminum conductor were subjected to a 500 current cycling test in accordance with IEC 61545. During the test, the system is cyclically loaded with current and temperature values are taken at the terminal point at specified times. The duration of the current-cycling test depends on the cross-section of the respective conductor and can vary between 1000 and 2000 hours. If the temperature limits are not exceeded during the entire time, the test is considered to have been passed.

## Transition from aluminum to copper conductor

The practical use of aluminum conductors and in particular the transition to copper conductors often proves to be problematic. Aluminum-copper connectors, so-called crimped cable lugs, offer a possibility for a safe connection of the two types of conductors. The application of a neutral acid and alkali-free Vaseline or by means of contact grease with comparable properties improve the contact properties of the connection point.

Weidmüller's WPD terminal blocks enable a simple, safe and cost-effective transition from aluminum conductors to copper conductors within the switchgear cabinet. For example, a supply line for the switchgear can be made from aluminum conductors on one side of the WPD terminal block and further wiring on the opposite side of the terminal block with copper conductors. The pretreatment of the aluminum conductor and the required torques can be found in the respective product data sheets.



# Aluminum wire as the new trend

## Basics for the use of aluminum conductors in terminal blocks

### Aluminum conductor for direct connection

Basically, aluminum conductors can be divided into 2 different types. On the one hand in round conductors and on the other hand in sector-shaped conductors, which in turn can be divided into rigid conductors or stranded conductors.

**RE:** Solid single round conductor

**RM:** Multi wire round conductor

**SE:** Solid sectorial round conductor

**SM:** Multi wire sectorial conductor



RE



RM



SE

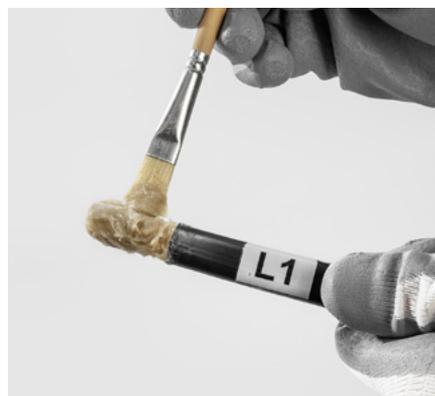


SM

To ensure optimum connection of solid and sector-shaped aluminum conductors, the stripped conductor must first be carefully cleaned of the oxide layer by scraping, for example with the aid of a knife. Brushes, files or even sandpaper should be avoided, as aluminum particles can stick to them and be transferred to other conductors. After cleaning the aluminum conductor of the oxide layer, it must be protected against renewed oxidation. This can be achieved by applying a neutral acid and alkali-free Vaseline or contact grease with comparable properties. After the conductor has been inserted directly into the connection point, the safe contact can be made in the connection point with the maximum tightening torque of the respective terminal block. If the conductor has already been disconnected and is to be reconnected, the work procedures must be carried out again. If the above steps are not followed when connecting an aluminum conductor directly, there is a risk of increasing the contact resistance. An increase in the contact resistance in turn leads to a higher power loss and more heat in the connection system, which in the worst case can result in a fire.



Scrape the conductor evenly on all sides.



Cover the conductor all around with neutral grease.



Direct connection in our WPD blocks with specified torque.



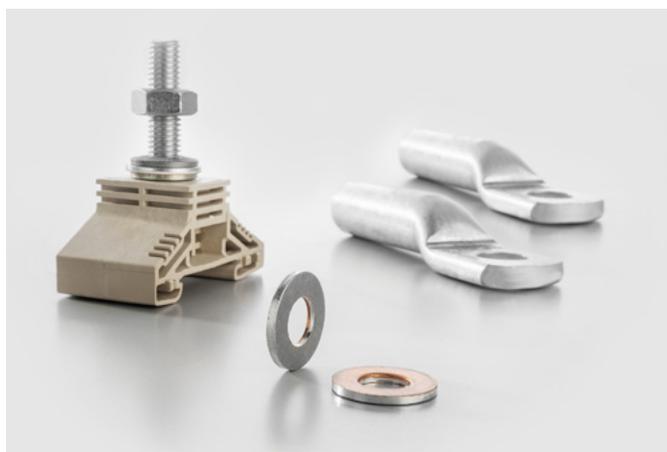
### Aluminum conductor for indirect connection

Indirect connection of aluminum conductors is the safest choice. This can be made possible by crimped connection elements such as Al/Cu ring cable lugs or crimp connection bolts. Nevertheless, the corresponding manufacturer's specifications must also be observed here, and the connection points must be checked according to the operating conditions. For normal ambient conditions and load cases, we recommend checking at intervals of six months. In case of unfavorable operating conditions or frequent temperature changes at the clamping points, a shorter interval may be necessary. Temperature measuring strips with storage of the maximum values can be attached in the immediate surroundings of the connection points and can be useful for an objective assessment during the regular inspections. All connection points are suitable for the connection of one conductor, unless explicitly noted otherwise.



### Assembly notes for flat cable lugs

When tightening the terminals, it is recommended to hold against the conductor to avoid deformation of the mounting rail and to keep the base of the terminal block free from torsional forces. Stranded aluminum conductors are connected to terminal blocks with the aid of an aluminum cable lug. This is selected according to its conductor shape and connected according to the cable lug manufacturer's specifications. Cupal washers are required for the transition from aluminum cable lugs to the busbar of the terminal blocks. They are installed so that the copper side contacts the busbar and the aluminum side contacts the aluminum cable lug.



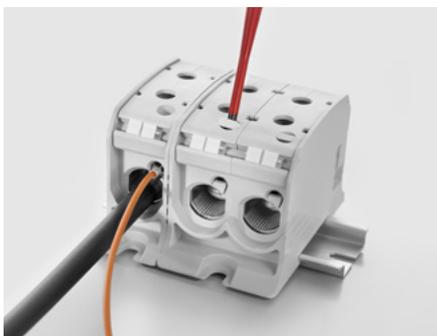
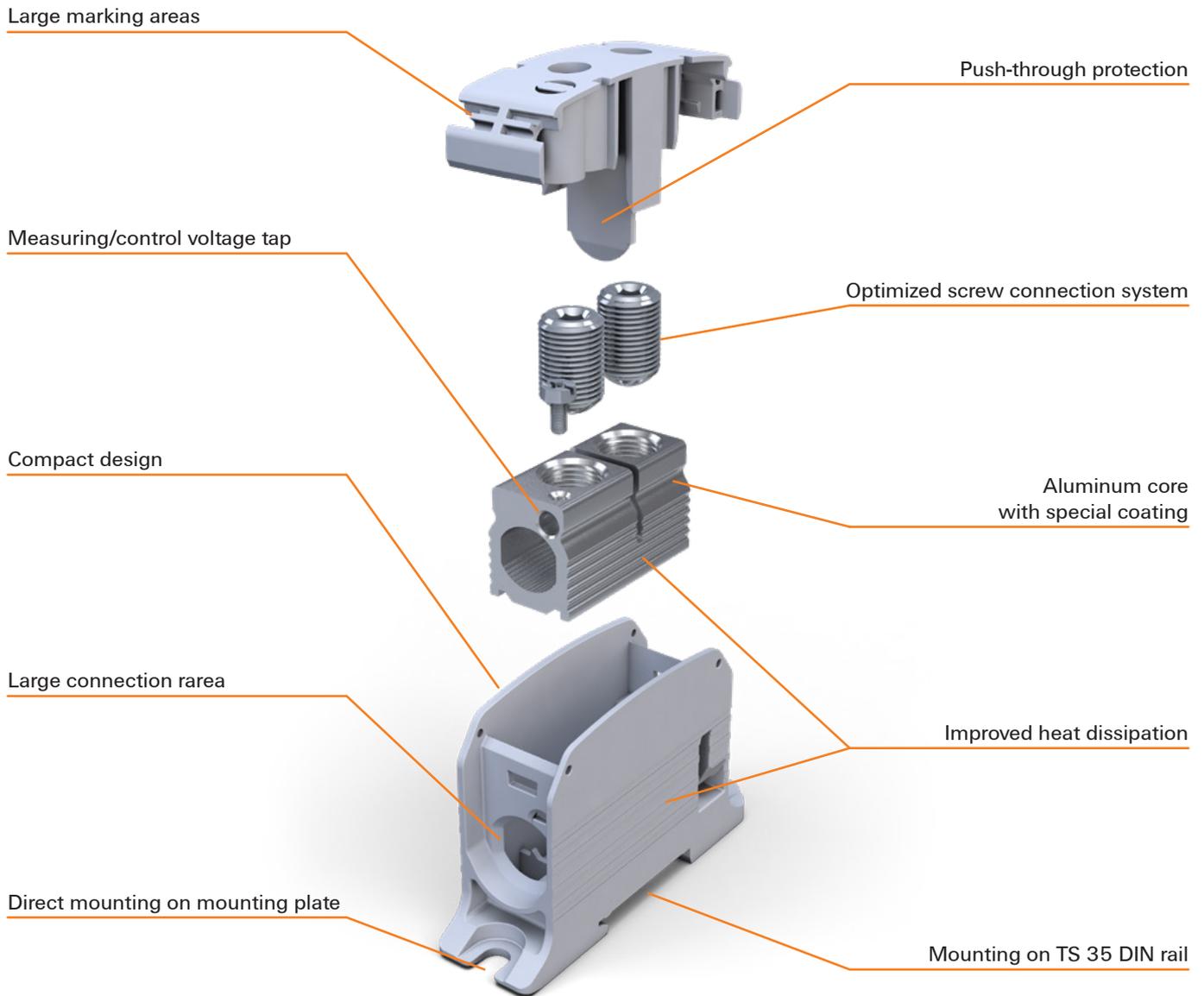


## Power feed-in terminal blocks

### Klippon® Connect WPD terminal blocks for power feed-in

Unlike conventional terminal blocks for the DIN rail, the WPD feed-in terminal blocks have a core made of aluminum. The compact aluminum core with its special coating, in combination with the hexagonal screws, enables the connection of both round and sector-shaped copper and aluminum wires in the cross-section range from 4 mm<sup>2</sup> up to 300 mm<sup>2</sup>, as well as flat busbars or laminated copper bars. The hexagonal drive with fine pitch thread simplifies the transmission of high torques and the turned screw head ensures carefully and equally divided tightening forces on the conductor. In combination with the compact aluminum core, the required high tightening torques can be achieved when using aluminum conductors.

Thanks to the low contact resistance and improved heat dissipation via integrated cooling ribs, high currents can be achieved with small designs using the WPD. All terminal blocks can be quickly and easily mounted on the mounting plate or TS 35 DIN rail according to IEC 60715 / DIN EN 50022. From the rated cross-section of 95 mm<sup>2</sup>, an additional voltage tap with the rated cross-section of 10 mm<sup>2</sup> is available. This can be used for measuring or control wires, for example. When used in front of the main switch, this can also function as an additional voltage tap for the emergency power supply within the switchgear.



**Uninterrupted monitoring**

Installation of small auxiliary power supply or monitoring connections, without previously disconnecting any connected supply line.



**Copper and aluminum conductors**

The special triple coating enables the contacting of copper and aluminum conductors in solid, stranded or fine-stranded, as well as in round or sector-shaped design.



**Easy and flexible mounting**

The possibility of direct mounting and the compatibility with the 35 mm mounting rail according to EN 60715 and EN 50022, allow quick processing and installation.

**Power feed-in**  
**Screw connection**

**W-Series**  
**WPD 130 1X50/1X50**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)	
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
Tightening torque	Nm
<b>Note</b>	

**Ordering data**

<b>Version</b>	
	light grey
	blue
	green
	brown
	black
	brown / black / light grey
	green / light grey / blue
<b>Note</b>	

**Accessories**

<b>Protective cover</b>	light grey
<b>End bracket</b>	grey black
<b>Screwdriver</b>	SET
<b>Identification systems</b>	

**WPD 130**

**50 mm<sup>2</sup>**



22 / 45 / 70	50 mm <sup>2</sup> 50 mm <sup>2</sup>
150 / 50	
2.5...50	

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000	1000		880
150	150		150
50	AWG 10...1/0		50
100 kA			
8 kV / 3			
III / V-0			
CE, UL, CSA, Ex, SCCR, CNEX18ATEX0016U			
<b>Rated connection</b>			
2.5...50 / 2.5...50			
2.5...35			
16 / M10 (SW 5 mm)			
see appendix at the end of the chapter			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 130 1X50/1X50 GY	9	2502530000
WPD 130 1X50/1X50 BL	9	2502540000
WPD 130 1X50/1X50 GN	9	2502550000
WPD 130 1X50/1X50 BN	9	2502560000
WPD 130 1X50/1X50 BK	9	2502570000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPDPC X30 GY	54	2503330000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

**WPD 230**

**50 mm<sup>2</sup>**



35.6 / 45 / 70	50 mm <sup>2</sup> 50 mm <sup>2</sup> 50 mm <sup>2</sup> 50 mm <sup>2</sup>
150 / 50	
2.5...50	

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000	1000		880
150	150		150
50	AWG 10...1/0		50
100 kA			
8 kV / 3			
III / V-0			
CE, UL, CSA, Ex, SCCR, CNEX18ATEX0016U			
<b>Rated connection</b>			
2.5...50 / 2.5...50			
2.5...35			
16 / M10 (SW 5 mm)			
see appendix at the end of the chapter			
Imax: 300 A with the connection of 4 x 50 mm <sup>2</sup>			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 230 2X50/2X50 GY	5	2502580000
WPD 230 2X50/2X50 BL	5	2502590000
WPD 230 2X50/2X50 GN	5	2502600000
WPD 230 2X50/2X50 BN	5	2502610000
WPD 230 2X50/2X50 BK	5	2502950000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPDPC X30 GY	54	2503330000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000



WPD 330

50 mm<sup>2</sup>



56.5 / 45 / 70  
150 / 50  
2.5...50



II 2 GD  
Ex eb IIC Gb

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000		880
150	150		150
50	AWG 10...1/0		50

100 kA

8 kV / 3

III / V-0

CE UK CA IEC Ex eb IIC Gb CNEX18ATEX0016U

Rated connection

2.5...50 / 2.5...50

2.5...35

16 / M10 (SW 5 mm)

see appendix at the end of the chapter

WPD 330CC

50 mm<sup>2</sup>



51.2 / 45 / 70  
150 / 50  
2.5...50



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000		
150	150		
50	AWG 10...1/0		

100 kA

8 kV / 3

III / V-0

CE UK CA IEC Ex eb IIC Gb

Rated connection

2.5...50 / 2.5...50

2.5...35

16 / M10 (SW 5 mm)

see appendix at the end of the chapter

Imax: 450 A with the connection of 6 x 50 mm<sup>2</sup>

WPD 530

50 mm<sup>2</sup>



51.2 / 45 / 93  
150 / 50  
2.5...50



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000			
150			
50			

8 kV / 3

III / V-0

CE UK CA IEC

Rated connection

2.5...50 / 2.5...50

2.5...35

16 / M10 (SW 5 mm)

see appendix at the end of the chapter

Type	Qty.	Order No.
WPD 330 3X50/3X50 3XGY	3	2502620000
WPD 330 3X50/3X50 1XBN/1XBK/1XGY	3	2502650000
WPD 330 1XGY/1XBL/1XGN	3	2502640000

Type	Qty.	Order No.
WPD 330CC 3X50/3X50 GY	3	2874510000
WPD 330CC 3X50/3X50 BL	3	2874520000
WPD 330CC 3X50/3X50 GN	3	2874530000
WPD 330CC 3X50/3X50 BN	3	2874540000
WPD 330CC 3X50/3X50 BK	3	2874550000

Type	Qty.	Order No.
WPD 530 5X50/5X50 3XGY/1XBL/1XGN	1	2935040000

Type	Qty.	Order No.
WPDPC X30 GY	54	2503330000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

Type	Qty.	Order No.
WPDPC X30 GY	54	2503330000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

Type	Qty.	Order No.
WPDPC X30 GY	54	2503330000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000



**Power feed-in**  
**Screw connection**

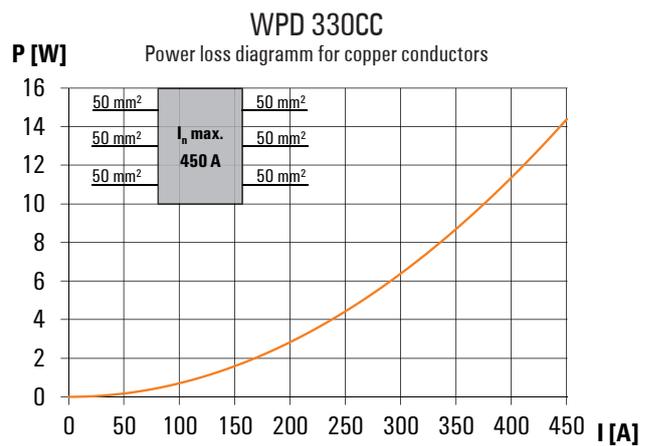
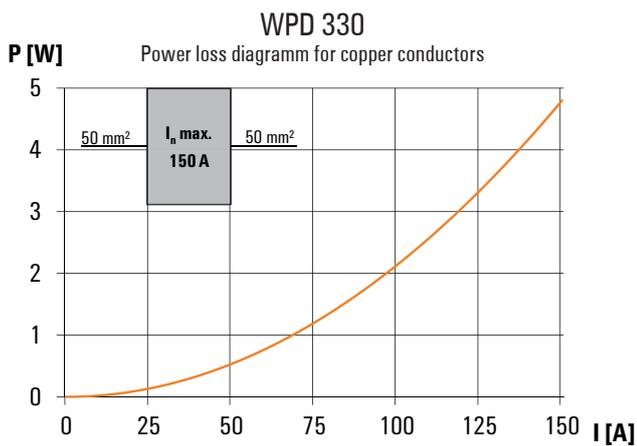
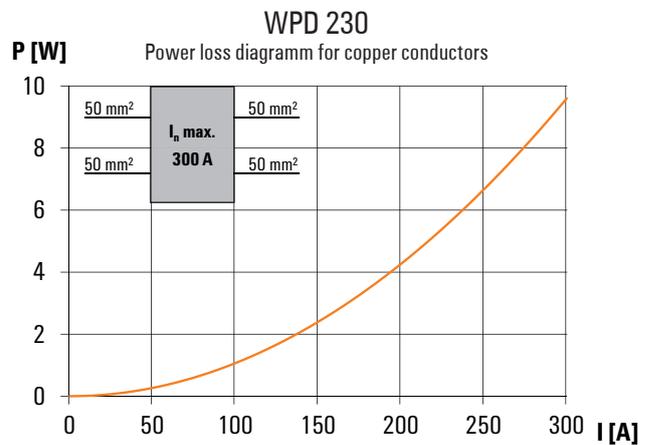
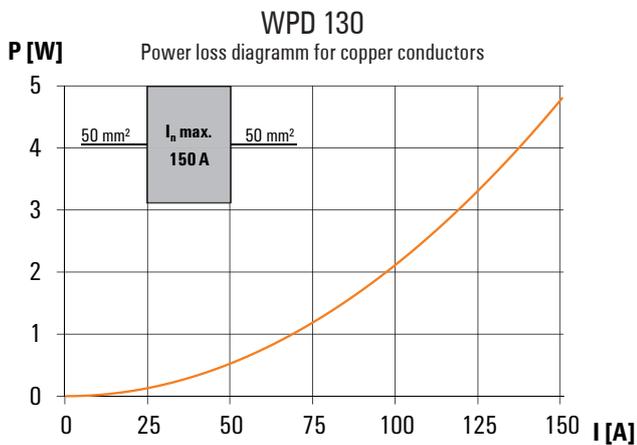
**Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Al+Cu)**

Input (x1) / Output (x1)	Copper		Aluminum	
				
50 mm <sup>2</sup>	10 Nm	10 Nm	14 Nm	14 Nm
35 mm <sup>2</sup>			14 Nm	14 Nm
25 mm <sup>2</sup>	8 Nm	8 Nm	12 Nm	10 Nm
16 mm <sup>2</sup>			12 Nm	
10 mm <sup>2</sup>	6 Nm	6 Nm		
6 mm <sup>2</sup>				
4 mm <sup>2</sup>				
2,5 mm <sup>2</sup>				
max. current with 2 x 50 mm <sup>2</sup> (acc. to IEC)	300 A		270 A	
Stripping lengths	16 mm			
Allen screw	M10 (SW 5 mm)			

Input (x1) / Output (x1)	Copper		Aluminum	
				
AWG 1/0	123.9Lb In.	123.9Lb In.	123.9Lb In.	123.9Lb In.
AWG 2			123.9Lb In.	123.9Lb In.
AWG 4			123.9Lb In.	123.9Lb In.
AWG 6			123.9Lb In.	123.9Lb In.
AWG 8			123.9Lb In.	123.9Lb In.
AWG 10			123.9Lb In.	123.9Lb In.
AWG 12				
max. current at 1 x 50 mm <sup>2</sup> (acc. to UL)	150 A		120 A	
Stripping lengths	16 mm			
Allen screw	M10 (SW 5 mm)			



**Diagrams**





**Power feed-in**  
**Screw connection**

**W-Series**  
**WPD 131 1X95/1X95**



<b>Width / Height / Depth</b>	<b>mm</b>
<b>max. current / max. conductor</b>	<b>A/mm<sup>2</sup></b>
<b>max. clamping range</b>	<b>mm<sup>2</sup></b>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	95 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>

Short Circuit Current Rating (SCCR)  
Rated impulse withstand voltage / Pollution severity  
Overvoltage category / UL 94 flammability rating  
Approvals

<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	95 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	95 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	95 mm <sup>2</sup> mm/-
	Auxiliary connection 6 mm <sup>2</sup> mm/-
Tightening torque	Nm

**Note**

**Ordering data**

<b>Version</b>	
	light grey
	blue
	green
	brown
	black

**Note**

**Accessories**

<b>Protective cover</b>	light grey
<b>End bracket</b>	grey
	black
<b>Screwdriver</b>	SET

**Identification systems**


**WPD 131**

**95 mm<sup>2</sup>**



<b>28 / 57 / 93</b>	10 mm <sup>2</sup>
<b>232 / 95</b>	95 mm <sup>2</sup>
<b>10...95</b>	95 mm <sup>2</sup>

**IEC 60947-7-1** II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	1000		880
232	200		232
95	AWG 8...3/0		95
6	AWG 16...8		6

100 kA  
8 kV / 3  
III / V-0

CE, RoHS, UL, UK, Ex, SCCR, CNEX18ATEX0016U

<b>Rated connection</b>	
10...95 / 10...95	
1.5...10 / 1.5...10	
10...70	
1.5...6	
26 / M14 (SW 6)	
10 / M4 (+/- PZ2)	

see appendix at the end of the chapter

Type	Qty.	Order No.
WPD 131 1X95/1X95 GY	2	2503090000
WPD 131 1X95/1X95 BL	2	2502660000
WPD 131 1X95/1X95 GN	2	2502670000
WPD 131 1X95/1X95 BN	2	2502680000
WPD 131 1X95/1X95 BK	2	2502690000

Type	Qty.	Order No.
WPDPC X31 GY	20	2503370000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

**WPD 231**

**95 mm<sup>2</sup>**



<b>47 / 57 / 93</b>	10 mm <sup>2</sup>
<b>232 / 95</b>	95 mm <sup>2</sup>
<b>10...95</b>	95 mm <sup>2</sup>

**IEC 60947-7-1** II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	1000		880
232	200		232
95	AWG 8...3/0		95
6	AWG 16...8		6

100 kA  
8 kV / 3  
III / V-0

CE, RoHS, UL, UK, Ex, SCCR, CNEX18ATEX0016U

<b>Rated connection</b>	
10...95 / 10...95	
1.5...10 / 1.5...10	
10...70	
1.5...6	
26 / M14 (SW 6)	
10 / M4 (+/- PZ2)	

see appendix at the end of the chapter  
I<sub>max</sub>: 464 A with the connection of 4 x 95 mm<sup>2</sup>

Type	Qty.	Order No.
WPD 231 2X95/2X95 GY	1	2502700000
WPD 231 2X95/2X95 BL	1	2502710000
WPD 231 2X95/2X95 GN	1	2502720000
WPD 231 2X95/2X95 BN	1	2502730000
WPD 231 2X95/2X95 BK	1	2502740000

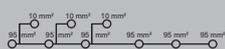
Type	Qty.	Order No.
WPDPC X31 GY	20	2503370000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

WPD 331CC

95 mm<sup>2</sup>



66 / 57 / 93  
232 / 95  
10...95



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000		
232	200		
95	AWG 8...3/0		
6	AWG 16...8		
	100 kA		
	8 kV / 3		
	III / V-0		



CE

Rated connection

10...95 / 10...95
1.5...10 / 1.5...10
10...70
1.5...6
26 / M14 (SW 6)
10 / M4 (+/- PZ2)

see appendix at the end of the chapter

Imax: 696 A with the connection of 6 x 95 mm<sup>2</sup>



Type	Qty.	Order No.
WPD 331CC 3X95/3X95 GY	1	2874560000
WPD 331CC 3X95/3X95 BL	1	2874580000
WPD 331CC 3X95/3X95 GN	1	2874600000
WPD 331CC 3X95/3X95 BN	1	2874590000
WPD 331CC 3X95/3X95 BK	1	2874570000



Type	Qty.	Order No.
WPDPC X31 GY	20	2503370000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

**Power feed-in**  
**Screw connection**

**Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Al+Cu)**

Input (x1) / Output (x1)	Copper		Aluminum	
				
95 mm <sup>2</sup>	19 Nm	19 Nm	22,6 Nm	22,6 Nm
70 mm <sup>2</sup>				
50 mm <sup>2</sup>				
35 mm <sup>2</sup>				
25 mm <sup>2</sup>				
16 mm <sup>2</sup>	14 Nm	14 Nm		
10 mm <sup>2</sup>				
max. current with 2 x 95 mm <sup>2</sup> (acc. to IEC)	464 A		200 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

Input (x1) / Output (x1)	Copper		Aluminum	
				
AWG 3/0	200Lb In.	200Lb In.	200Lb In.	123.9Lb In.
AWG 2/0				
AWG 1/0				
AWG 2				
AWG 4				
AWG 6				
AWG 8				
max. current at 1 x 95 mm <sup>2</sup> (acc. to UL)	200 A		155 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

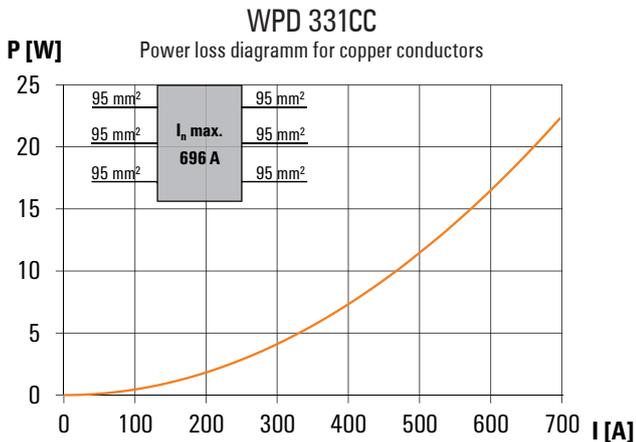
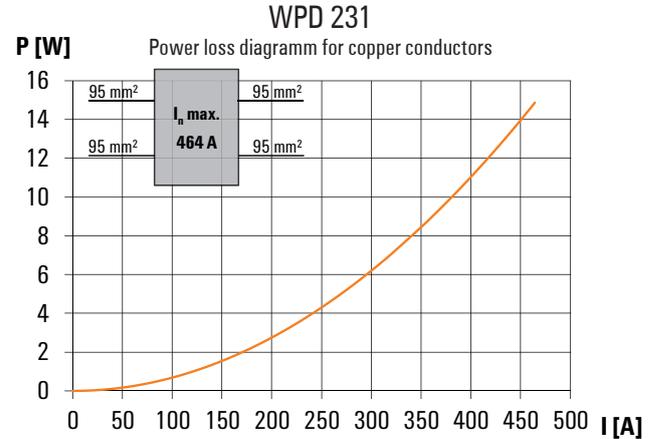
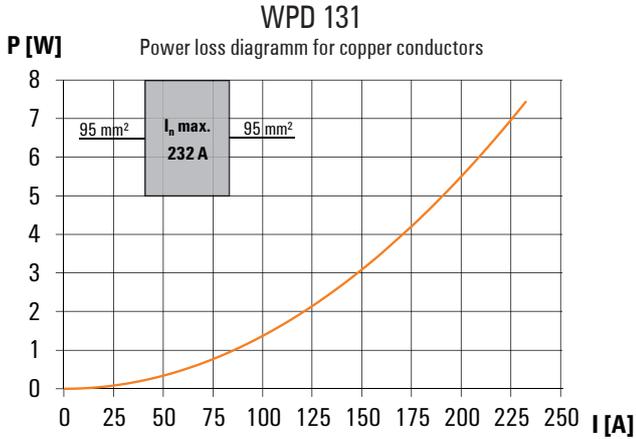
**Auxiliary connection**

	Copper	
		
10 mm <sup>2</sup>	1,2 Nm	1,2 Nm
6 mm <sup>2</sup>		
4 mm <sup>2</sup>		
2.5 mm <sup>2</sup>		
1.5 mm <sup>2</sup>		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/-PZ2)	

	Copper	
		
AWG 8	20.3Lb In.	20.3Lb In.
AWG 10		
AWG 12		
AWG 14		
AWG 16		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/- PZ2)	



**Diagrams**





**Power feed-in**  
**Screw connection**

**W-Series**  
**WPD 132 1X185/1X185**



<b>Width / Height / Depth</b>	mm
<b>max. current / max. conductor</b>	A/mm <sup>2</sup>
<b>max. clamping range</b>	mm <sup>2</sup>

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	185 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Short Circuit Current Rating (SCCR)	
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	185 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	185 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	185 mm <sup>2</sup> mm/-
	Auxiliary connection 6 mm <sup>2</sup> mm/-
Tightening torque	Nm
<b>Note</b>	

**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
<b>Note</b>	

**Accessories**

Protective cover	
	light grey
End bracket	
	grey
	black
Screwdriver	
	SET
Identification systems	

**WPD 132**

**185 mm<sup>2</sup>**



<b>37,5 / 73,5 / 105</b>	
<b>353 / 185</b>	
<b>25...185</b>	

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	1000		1100
353	310		353
185	AWG 4...kcmil 350		185
6	AWG 16...8		6
		100 kA	
		8 kV / 3	
		III / V-0	
<b>Rated connection</b>			
95...185 / 95...185			
1.5...10 / 1.5...10			
25...150			
1.5...6			
29 / M18 (SW 10)			
10 / M4 (+/- PZ2)			
see appendix at the end of the chapter			
<b>Note</b>			

Type	Qty.	Order No.
WPD 132 1X185/1X185 GY	1	2502750000
WPD 132 1X185/1X185 BL	1	2502760000
WPD 132 1X185/1X185 GN	1	2502770000
WPD 132 1X185/1X185 BN	1	2502780000
WPD 132 1X185/1X185 BK	1	2502790000
<b>Note</b>		

Type	Qty.	Order No.
WPDPC X32 GY	12	2503380000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000
<b>Note</b>		

**WPD 232**

**185 mm<sup>2</sup>**



<b>67,6 / 73,5 / 105</b>	
<b>353 / 185</b>	
<b>25...185</b>	

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	1000		1100
353	310		353
185	AWG 4...kcmil 350		185
6	AWG 16...8		6
		100 kA	
		8 kV / 3	
		III / V-0	
<b>Rated connection</b>			
95...185 / 95...185			
1.5...10 / 1.5...10			
25...150			
1.5...6			
29 / M18 (SW 10)			
10 / M4 (+/- PZ2)			
see appendix at the end of the chapter			
Imax: 706 A with the connection of 4 x 185 mm <sup>2</sup>			
<b>Note</b>			

Type	Qty.	Order No.
WPD 232 2X185/2X185 GY	1	2502800000
WPD 232 2X185/2X185 BL	1	2502810000
WPD 232 2X185/2X185 GN	1	2502820000
WPD 232 2X185/2X185 BN	1	2502830000
WPD 232 2X185/2X185 BK	1	2502840000
<b>Note</b>		

Type	Qty.	Order No.
WPDPC X32 GY	12	2503380000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000
<b>Note</b>		

Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Al+Cu)

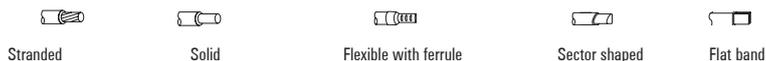
Input (x1) / Output (x1)	Copper		Aluminum	
185 mm <sup>2</sup>	25 Nm	25 Nm	30,9 Nm	30,9 Nm
150 mm <sup>2</sup>				
120 mm <sup>2</sup>				
95 mm <sup>2</sup>				
70 mm <sup>2</sup>				
50 mm <sup>2</sup>	20 Nm	20 Nm	20 Nm	20 Nm
35 mm <sup>2</sup>				
25 mm <sup>2</sup>				
Flat band 10x15,5x0,8 mm				
max. current with 2 x 185 mm <sup>2</sup> (acc. to IEC)	706 A		284 A	
Stripping lengths	29 mm			
Allen screw	M18 (SW 10 mm)			

Input (x1) / Output (x1)	Copper		Aluminum	
350 kcmil	250Lb In.	250Lb In.	398Lb In.	398Lb In.
300 kcmil				
250 kcmil				
AWG 3/0				
AWG 2/0				
AWG 1/0	200Lb In.	200Lb In.	200Lb In.	200Lb In.
AWG 2				
AWG 4				
max. current with 1 x 185 mm <sup>2</sup> (acc. to UL)	310 A		250 A	
Stripping lengths	29 mm			
Allen screw	M18 (SW 10 mm)			

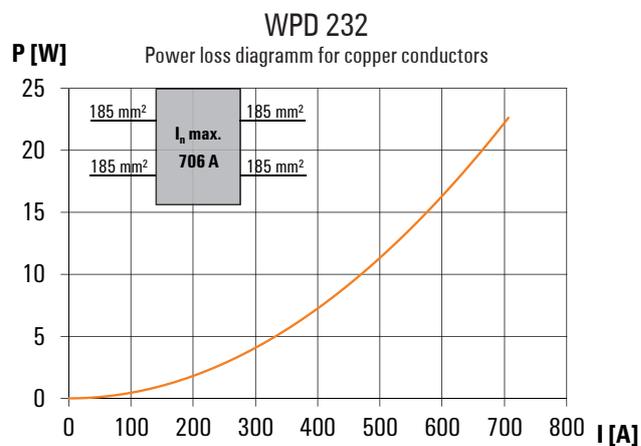
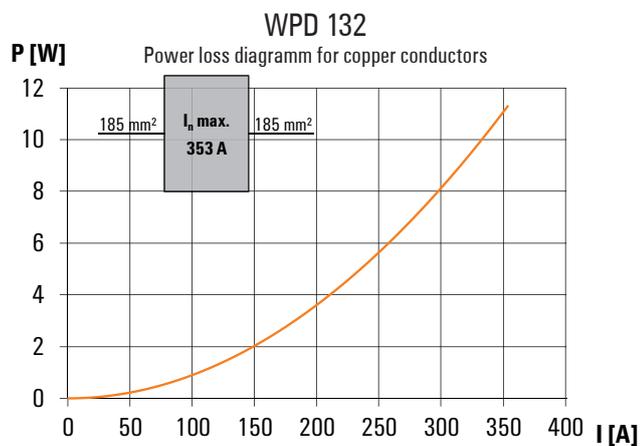
Auxiliary connection

	Copper	
10 mm <sup>2</sup>	1,2 Nm	1,2 Nm
6 mm <sup>2</sup>		
4 mm <sup>2</sup>		
2.5 mm <sup>2</sup>		
1.5 mm <sup>2</sup>		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/-PZ2)	

	Copper	
AWG 8	20.3Lb In.	20.3Lb In.
AWG 10		
AWG 12		
AWG 14		
AWG 16		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/- PZ2)	



Diagrams



Power feed-in  
Screw connection

**W-Series**  
**WPD 133 1X300/1X300**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	300 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>

Short Circuit Current Rating (SCCR)  
Rated impulse withstand voltage / Pollution severity  
Overvoltage category / UL 94 flammability rating

<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	300 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	300 mm <sup>2</sup> mm <sup>2</sup>
	Auxiliary connection 6 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	300 mm <sup>2</sup> mm/-
	Auxiliary connection 6 mm <sup>2</sup> mm/-
Tightening torque	Nm

**Note**

**Ordering data**

<b>Version</b>	
	light grey
	blue
	green
	brown
	black

**Note**

**Accessories**

<b>Protective cover</b>	light grey
<b>End bracket</b>	grey
	black
<b>Screwdriver</b>	SET
<b>Identification systems</b>	


**WPD 133** **300 mm<sup>2</sup>**



45 / 83.5 / 118	
520 / 300	
35...300	



**IEC 60947-7-1** **II 2 GD**  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000	1000		1100
520	420		340
300	AWG 2...kcmil 600		300
6	AWG 16...8		6

100 kA  
8 kV / 3  
III / V-0

CE, RoHS, UL, UK, Ex, SCCR, CNEX18ATEX0016U

<b>Rated connection</b>	
150...300 / 150...300	
1.5...10 / 1.5...10	
35...240	
1.5...6	
34 / M24 (SW 12)	
10 / M4 (+/- PZ2)	

see appendix at the end of the chapter

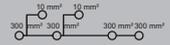
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 133 1X300/1X300 GY	1	2502850000
WPD 133 1X300/1X300 BL	1	2502860000
WPD 133 1X300/1X300 GN	1	2502870000
WPD 133 1X300/1X300 BN	1	2502880000
WPD 133 1X300/1X300 BK	1	2502890000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPDPC X33 GY	8	2503390000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

**WPD 233** **300 mm<sup>2</sup>**



82.6 / 83.5 / 118	
520 / 300	
35...300	



**IEC 60947-7-1** **II 2 GD**  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000	1000		1100
520	420		340
300	AWG 2...kcmil 600		300
6	AWG 16...8		6

100 kA  
8 kV / 3  
III / V-0

CE, RoHS, UL, UK, Ex, SCCR, CNEX18ATEX0016U

<b>Rated connection</b>	
150...300 / 150...300	
1.5...10 / 1.5...10	
35...240	
1.5...6	
34 / M24 (SW 12)	
10 / M4 (+/- PZ2)	

see appendix at the end of the chapter  
I<sub>max</sub>: 1040 A with the connection of 4 x 300 mm<sup>2</sup>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 233 2X300/2X300 GY	1	2502900000
WPD 233 2X300/2X300 BL	1	2502910000
WPD 233 2X300/2X300 GN	1	2502920000
WPD 233 2X300/2X300 BN	1	2502930000
WPD 233 2X300/2X300 BK	1	2502940000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPDPC X33 GY	8	2503390000
WEW 35/2 GR 7042	100	1859200000
AEB 35 SC/1 BK	50	2475310000
SK WSD-S 1,5-10,0	1	9008850000
DEK 5/5 MC NE WS	1000	1609801044
WS 8/5 MM WS	800	2007150000

Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Al+Cu)

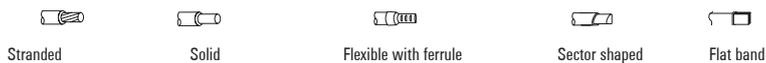
Input (x1) / Output (x1)	Copper			Aluminum	
					
300 mm <sup>2</sup>	45 Nm			65 Nm	65 Nm
240 mm <sup>2</sup>					
185 mm <sup>2</sup>					
150 mm <sup>2</sup>					
120 mm <sup>2</sup>	30 Nm			65 Nm	
95 mm <sup>2</sup>					
70 mm <sup>2</sup>					
50 mm <sup>2</sup>					
35 mm <sup>2</sup>					
Flat band 10x20x1 mm				65 Nm	
Max. current with 2 x 300 mm <sup>2</sup> (acc. to IEC)	1040 A			340 A	
Stripping lengths	34 mm				
Allen screw	M24 (SW 12 mm)				

Input (x1) / Output (x1)	Copper		Aluminum		
					
600 kcmil	300Lb In.			575Lb In.	
500 kcmil					
350 kcmil					
300 kcmil					
250 kcmil	200Lb In.			575Lb In.	
AWG 3/0					
AWG 2/0					
AWG 1					
AWG 2					
Max. current at 1 x 300 mm <sup>2</sup> (acc. to UL)	420 A		340 A		
Stripping lengths	34 mm				
Allen screw	M24 (SW 12 mm)				

Auxiliary connection

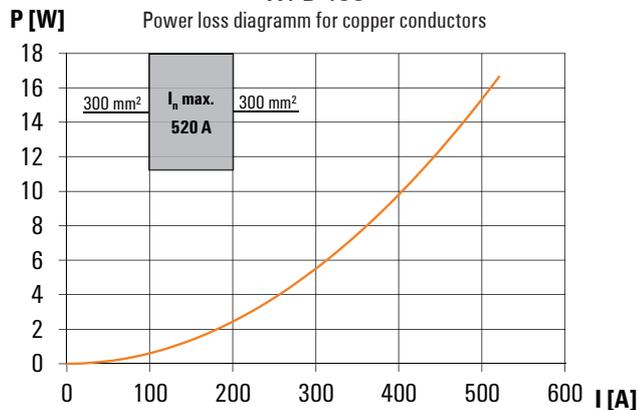
Copper		
		
10 mm <sup>2</sup>	1,2 Nm	
6 mm <sup>2</sup>		
4 mm <sup>2</sup>		
2.5 mm <sup>2</sup>		
1.5 mm <sup>2</sup>	1,2 Nm	
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/-PZ2)	

Copper		
		
AWG 8	20.3Lb In.	
AWG 10		
AWG 12		
AWG 14		
AWG 16	20.3Lb In.	
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/- PZ2)	

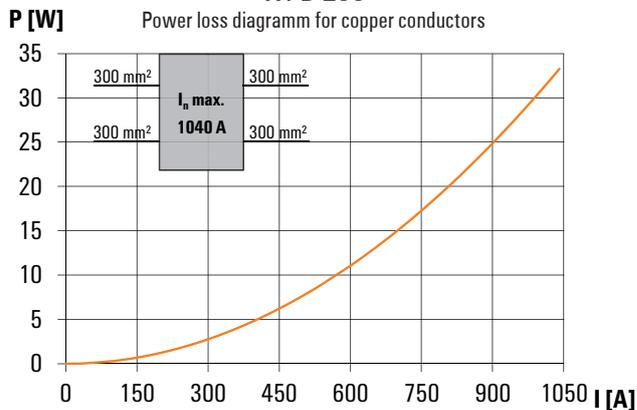


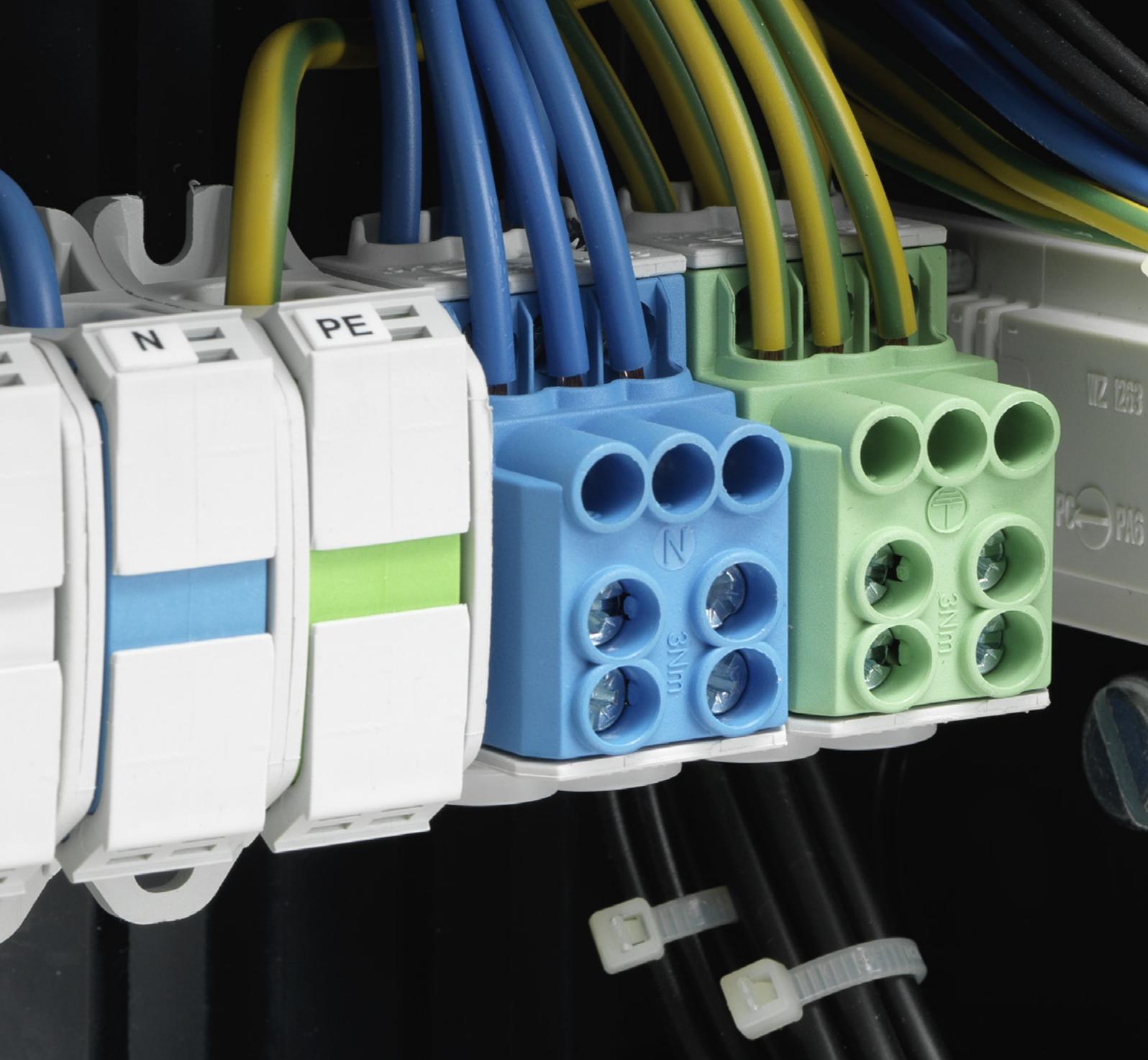
Drawings

WPD 133



WPD 233





## Sub-distributor block

### Klippon® Connect WPD terminal blocks for power distribution

Unlike conventional sub-distribution terminals, the WPD have a core made of brass. The compact brass core with its special coating, in combination with the hexagonal screws, enables the connection of round and sector-shaped copper and aluminum wires in the cross-section range from 1.5 mm<sup>2</sup> up to 70 mm<sup>2</sup>. The hexagonal drive with fine pitch thread simplifies the transmission of high torques and the turned screw head ensures carefully and equally divided tightening forces on the conductor.

In combination with the compact brass core, the required high tightening torques can be achieved when using aluminum conductors.

Thanks to the additional contact identification, each contact point on the clamping blocks can be clearly matched to the connection point in the circuit diagram. All sub-distribution blocks can be quickly and easily mounted on the mounting plate or TS 35 DIN rail according to IEC 60715 / DIN EN 50022.

Finger safety according to DIN EN 50274

Color coding

Compact design

Optimized screw connection system

Connection for aluminum and copper conductors

Brass core with special coating

Flexible stackable

Large connection area

Marking of the connection points

Mounting on TS 35 DIN rail



### Unique contact designation

Thanks to the additional contact designation, each contact point on the terminal block can be clearly assigned to the connection point in the circuit diagram.

### Copper and aluminum conductors

The special triple coating enables the contacting of copper and aluminum conductors in solid, stranded or fine-stranded, as well as in round or sector-shaped design.

### Color coding

For clear wiring, different color variants are available for the respective potential. Black, brown and gray for the three phases. Blue for the neutral conductor and green for the connection of the protective earth conductor.

**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 100 2X25/6X10**



**WPD 100**

**25 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

30.2 / 49 / 55.4	10 mm <sup>2</sup>	25 mm <sup>2</sup>
101 / 25	10 mm <sup>2</sup>	25 mm <sup>2</sup>
1.5...25	10 mm <sup>2</sup>	25 mm <sup>2</sup>

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	25 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	25 mm <sup>2</sup>	mm <sup>2</sup>
	10 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	25 mm <sup>2</sup>	mm <sup>2</sup>
	10 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	25 mm <sup>2</sup>	mm/-
	10 mm <sup>2</sup>	mm/-
Tightening torque		Nm
Note		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000			
101			
25			
8 kV / 3			
III / V-0			
CE			
Rated connection			
2.5...25 / 2.5...25			
1.5...10 / 1.5...10			
1.5...16			
1.5...6			
17 / M6 (+/- PZ2)			
9 / M5 (+/- PZ2)			
see appendix at the end of the chapter			

**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
Note	

Type	Qty.	Order No.
WPD 100 2X25/6X10 GY	3	1561910000
WPD 100 2X25/6X10 BI	3	1561920000
WPD 100 2X25/6X10 GN	3	1561930000
WPD 100 2X25/6X10 BN	3	2814500000
WPD 100 2X25/6X10 BK	3	2814490000

**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000

Conductor connection data according to DIN EN 60998-1 (Cu), IEC 61238-1 class A (Cu+Al)

Input (x2)	Copper		Aluminum
2x25 mm <sup>2</sup>			
25 mm <sup>2</sup>	3 Nm	3 Nm	4 Nm
16 mm <sup>2</sup>			
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2.5 mm <sup>2</sup>			
1.5 mm <sup>2</sup>			
Stripping lengths	17 mm		
screw	M6 (+/- PZ2)		

Output (x6)	Copper		Aluminum
6x10 mm <sup>2</sup>			
10 mm <sup>2</sup>	2 Nm	2 Nm	3 Nm
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2.5 mm <sup>2</sup>			
1.5 mm <sup>2</sup>			
Stripping lengths	9 mm		
screw	M5 (+/- PZ2)		

 Stranded     
  Solid     
  Flexible with ferrule

**Power distribution**  
**Screw connection**

**W-Series**

**WPD 110 1X70+1X35/6X16**



**WPD 110**

**70 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

38.5 / 63 / 69.5	
192 / 70	
1.5...70	

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	70 mm <sup>2</sup> mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	70 mm <sup>2</sup> mm <sup>2</sup>
	35 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	70 mm <sup>2</sup> mm <sup>2</sup>
	35 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	70 mm <sup>2</sup> mm/-
	35 mm <sup>2</sup> mm/-
	16 mm <sup>2</sup> mm/-
Tightening torque	Nm
Note	

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000			
200			
70			
		8 kV / 3	
		III / V-0	
Rated connection			
10...70 / 4...35			
4...35 / 4...35			
1.5...16 / 1.5...16			
6...50			
2.5...25			
1.5...10			
27 / M10			
26 / M8			
13 / M6			
see appendix at the end of the chapter			
Note			



**Ordering data**

Version
light grey
blue
green
brown
black
Note

Type	Qty.	Order No.
WPD 110 1X70+1X35/6X16 GY	3	2603810000
WPD 110 1X70+1X35/6X16 BL	3	2603820000
WPD 110 1X70+1X35/6X16 GN	3	2603830000
WPD 110 1X70+1X35/6X16 BN	3	2814520000
WPD 110 1X70+1X35/6X16 BK	3	2814510000
Note		

**Accessories**

End bracket
dark beige
dark beige
Screwdriver
Note

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
Note		



Conductor connection data according to DIN EN 60998-1 (Cu), IEC 61238-1 class A (Cu+Al)

Input	Copper		Aluminum
1x 70 mm <sup>2</sup>			
70 mm <sup>2</sup>	10 Nm	10 Nm	12 Nm
50 mm <sup>2</sup>			
35 mm <sup>2</sup>			
25 mm <sup>2</sup>			
16 mm <sup>2</sup>			
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
Stripping lengths	27 mm		
Screw	M10 (+/- PZ2)		

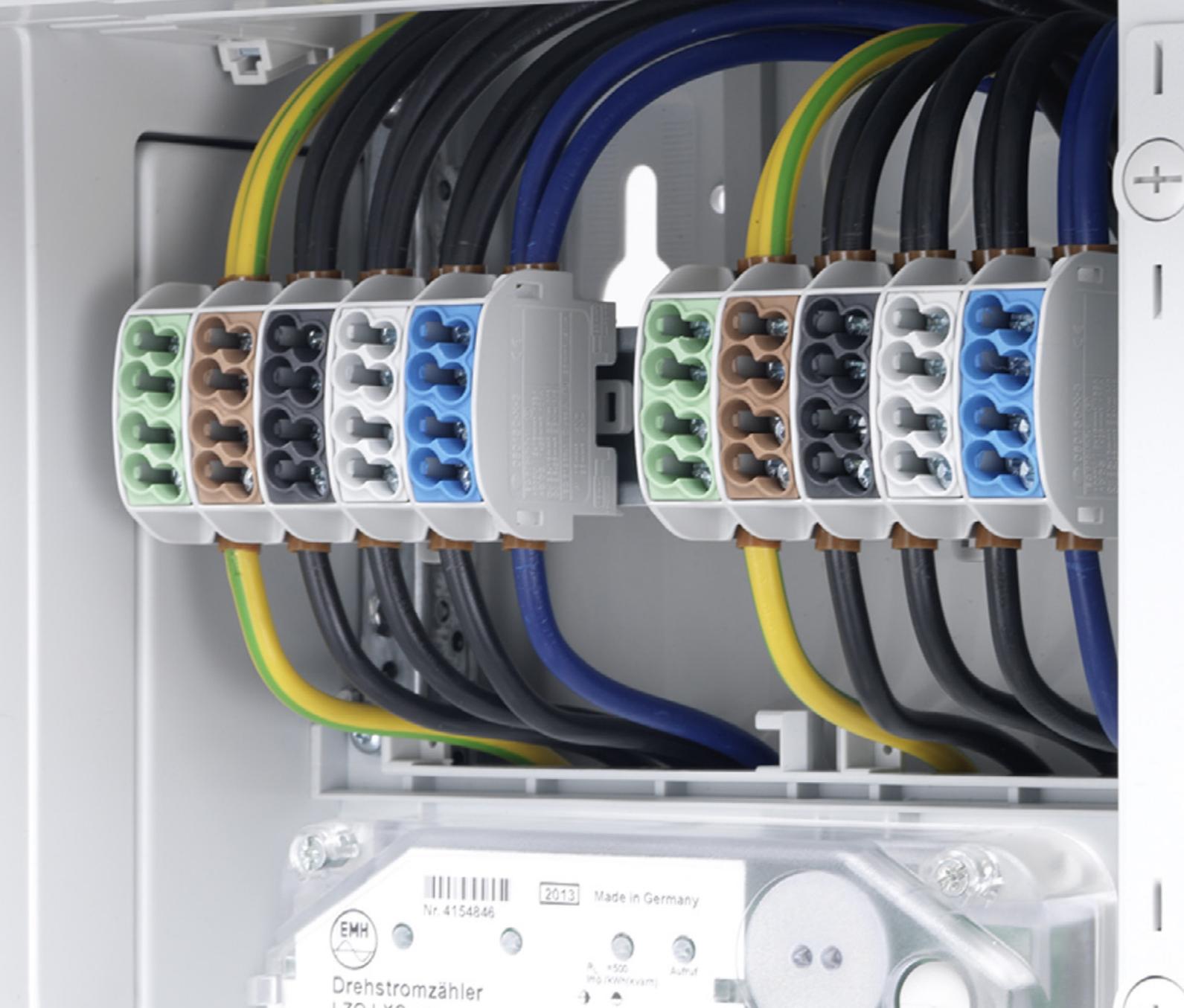
Input	Copper		Aluminum
1x 35 mm <sup>2</sup>			
35 mm <sup>2</sup>	6 Nm	6 Nm	
25 mm <sup>2</sup>			
16 mm <sup>2</sup>			
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2,5 mm <sup>2</sup>			
Stripping lengths	26 mm		
Screw	M8 (+/- PZ2)		

Output	Copper		Aluminum
6x 16 mm <sup>2</sup>			
16 mm <sup>2</sup>	3 Nm	3 Nm	10 Nm
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2.5 mm <sup>2</sup>			
1.5 mm <sup>2</sup>			
Stripping lengths	13 mm		
Screw	M6 (+/- PZ2)		

 Stranded

 Solid

 Flexible with ferrule



## Main line branch terminals

### Klippon® Connect WPD terminal blocks for power distribution

In comparison with conventional branch terminals (HLAK), the WPD have a core made of brass. The compact brass core with its special coating, in combination with the screws, enables the connection of round and sector-shaped copper and aluminum wires in the cross-section range from 1.5 mm<sup>2</sup> up to 70 mm<sup>2</sup>. The screw with fine pitch thread simplifies the transmission of high torques and the turned screw head ensures carefully and equally divided tightening forces on the conductor. In combination with the compact brass core, the required high tightening torques can be achieved when using aluminum conductors.

The main line branch terminals (HLAK) meet the more stringent requirements of DIN VDE 0603-3-1. The more stringent requirements relate, for example, to a dielectric strength of 3000 volts, an increased CTI value for tracking resistance or also the corrosion protection for the steel screws used, which must be verified with the VDE certificate. The design of the mounting foot allows the junction terminal to be screwed directly onto the mounting plate. Alternatively, the junction terminal can also be snapped onto a TS 35 DIN rail according to IEC 60715 / DIN EN 50022. Both options can be realized horizontally and vertically.

Compact design

Redundant safety

Finger safety according to DIN EN 50274

Optimized screw connection system

Color coding

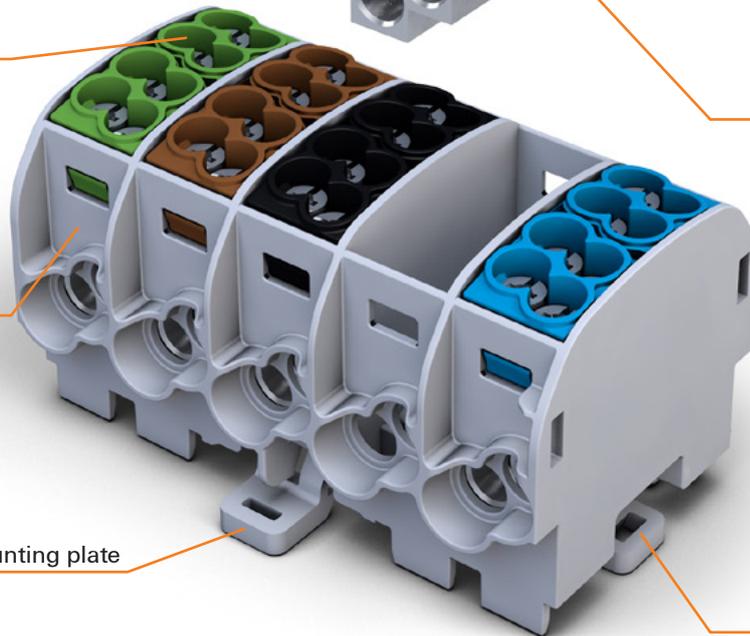
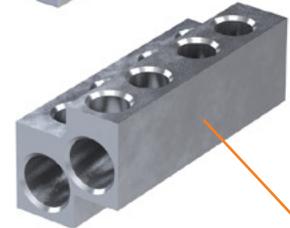
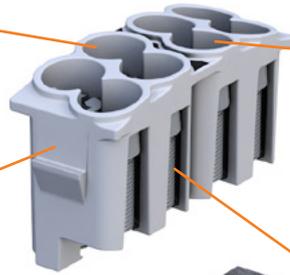
Brass core with special coating

According to DIN VDE 0603-3-1

Flexible stackable

Direct mounting on mounting plate

Mounting on TS 35 DIN rail



### Easy and flexible mounting

Thanks to the new design and the application-oriented contours, the main line branch terminals are suitable for horizontal or vertical mounting on the TS 35 mounting rail.

### Copper and aluminum conductors

The special triple coating enables the contacting of copper and aluminum conductors in solid, stranded or fine-stranded, as well as in round or sector-shaped design.

### Color coding

For clear wiring, different color variants are available for the respective potential. Black, brown and gray for the three phases. Blue for the neutral conductor and green for the connection of the protective earth conductor.

**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 101 2X25/2X16**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	25 mm <sup>2</sup> mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	25 mm <sup>2</sup> mm/-
	16 mm <sup>2</sup> mm/-
Tightening torque	Nm
Note	

**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
	3x light grey / blue
	green / 3x light grey / blue
	brown / black / light grey / blue / green
Note	

**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	

**WPD 101**

**25 mm<sup>2</sup>**



17.8 / 49.3 / 55.7	
101 / 25	
1.5...25	

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600		
152	90		
25	AWG 16...4		
8 kV / 3			
III / V-0			
Rated connection			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
1.5...16			
1.5...10			
19 / M6 (+/- PZ2)			
19 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
Imax: 164 A with the connection of 4 x 16 mm <sup>2</sup>			

Type	Qty.	Order No.
WPD 101 2X25/2X16 GY	5	1560730000
WPD 101 2X25/2X16 BL	5	1560670000
WPD 101 2X25/2X16 GN	5	1560650000
WPD 101 2X25/2X16 BN	5	1561120000
WPD 101 2X25/2X16 BK	5	1561100000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000

**WPD 301**

**25 mm<sup>2</sup>**



53 / 49.3 / 55.7	
101 / 25	
1.5...25	

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000			
152			
25			
8 kV / 3			
III / V-0			
Rated connection			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
1.5...16			
1.5...10			
19 / M6 (+/- PZ2)			
19 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
Imax: 164 A with the connection of 4 x 16 mm <sup>2</sup>			

Type	Qty.	Order No.
WPD 301 2X25/2X16 3XGY	2	1561130000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000

WPD 401

25 mm<sup>2</sup>



71.6 / 49.3 / 55.7  
101 / 25  
1.5...25



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000			
152			
25			
8 kV / 3			
III / V-0			



Rated connection

2.5...25 / 2.5...25
1.5...16 / 1.5...16
1.5...16
1.5...10
19 / M6 (+/- PZ2)
19 / M6 (+/- PZ2)

see appendix at the end of the chapter

Imax: 164 A with the connection of 4 x 16 mm<sup>2</sup>

Type	Qty.	Order No.
WPD 401 2X25/2X16 4XGY	1	1561800000
WPD 401 2X25/2X16 3XGY/1XBL	1	1562130000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000

WPD 501

25 mm<sup>2</sup>



88.8 / 49.3 / 55.7  
101 / 25  
1.5...25



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000			
152			
25			
8 kV / 3			
III / V-0			



Rated connection

2.5...25 / 2.5...25
1.5...16 / 1.5...16
1.5...16
1.5...10
19 / M6 (+/- PZ2)
19 / M6 (+/- PZ2)

see appendix at the end of the chapter

Imax: 164 A with the connection of 4 x 16 mm<sup>2</sup>

Type	Qty.	Order No.
WPD 501 2X25/2X16 5XGY	1	1561750000
WPD 501 2X25/2X16 1XGN/3XGY/1XBL	1	1562140000
WPD 501 2X25/2X16 1XBN/BK/GY/BL/GN	1	2976330000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 201 2X25/2X16**



**WPD 201**

**25 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

34.2 / 49.3 / 52
152 / 25
1.5...25



**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	25 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	25 mm <sup>2</sup>	mm/-
	16 mm <sup>2</sup>	mm/-
Tightening torque		Nm
<b>Note</b>		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600		
101	90		
25	AWG 16...4		
8 kV / 3			
III / V-0			
Rated connection			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
1.5...16			
1.5...10			
19 / M6 (+/- PZ2)			
19 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
I <sub>max</sub> : 328 A with the connection of 8 x 16 mm <sup>2</sup>			



**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
<b>Note</b>	

Type	Qty.	Order No.
WPD 201 4X25/4X16 GY	1	2731220000
WPD 201 4X25/4X16 BL	1	2731230000
WPD 201 4X25/4X16 GN	1	2731240000
WPD 201 4X25/4X16 BN	1	2731250000
WPD 201 4X25/4X16 BK	1	2731260000



**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000



Conductor connection data according to VDE 0603-2 (Cu), IEC 60947-7-1 (Cu), IEC 61238-1 Class A (Cu+Al)

Input (x2) / Output (x2)	Copper		Aluminum	Input (x2) / Output (x2)	Copper		Aluminum
2x25 mm <sup>2</sup> (round conductor)				2x16 mm <sup>2</sup> (round conductor)			
25 mm <sup>2</sup>	3,5 Nm	3,5 Nm	4 Nm	25 mm <sup>2</sup>	2,5 Nm	2,5 Nm	4 Nm
16 mm <sup>2</sup>							
10 mm <sup>2</sup>							
6 mm <sup>2</sup>							
4 mm <sup>2</sup>							
2,5 mm <sup>2</sup>				1,5 mm <sup>2</sup>			
Stripping lengths screw	19 mm			19 mm			
	M6 (+/- PZ2)			M6 (+/- PZ2)			



Stranded

Solid

Flexible with ferrule

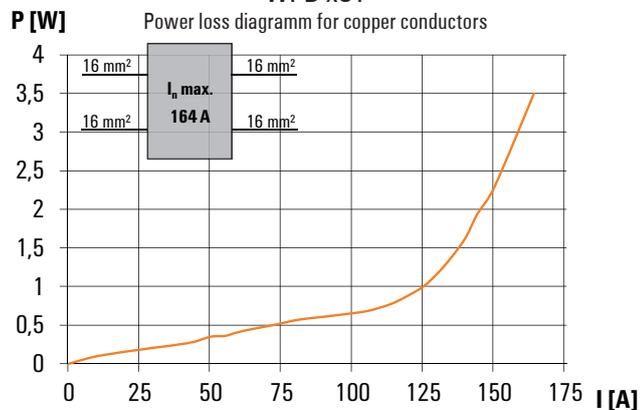
Conductor connection data according to UL 1059 (Al+Cu)

Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum
AWG 4	22.1 Lb In					
AWG 6						
AWG 8						
AWG 10						
AWG 12						
AWG 14						
AWG 16						
max. current	90 A	90 A	65 A	65 A	50 A	50 A
Voltage size B,C (UR)	600 V					

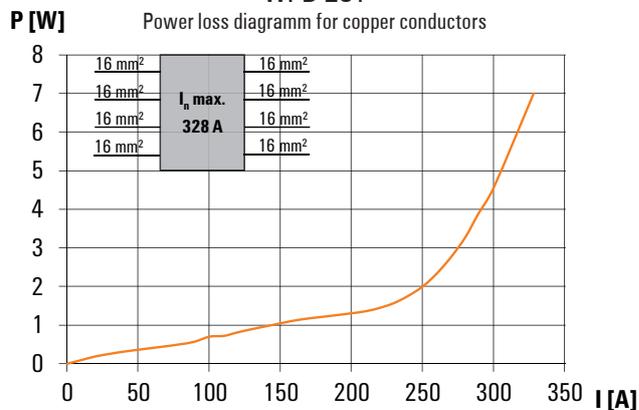
CSA Rating data according to CSA 22.2 No. 158 ng data

Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum
AWG 4	2.5 Nm	2.5 Nm	2.1 Nm	2.1 Nm	2.1 Nm	2.1 Nm
AWG 6						
AWG 8						
AWG 10						
AWG 12						
AWG 14						
AWG 16						
max. current	90 A	90 A	65 A	65 A	50 A	50 A
Voltage size B,C (UR)	600 V					

WPD x01



WPD 201



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 102 2X35/2X25**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	35 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	35 mm <sup>2</sup>	mm/-
	25 mm <sup>2</sup>	mm/-
Tightening torque		Nm
<b>Note</b>		

**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
<b>Note</b>	

**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	

**WPD 102**

**35 mm<sup>2</sup>**



22.2 / 49.3 / 55.7	
125 / 35	
2.5...35	

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600		
202	125		
35	AWG 16...2		
8 kV / 3			
III / V-0			
Rated connection			
4...35 / 4...35			
2.5...25 / 2.5...25			
2.5...25			
2.5...16			
22 / M6 (+/- PZ2)			
18 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
Imax: 214 A with the connection of 4 x 25 mm <sup>2</sup>			

Type	Qty.	Order No.
WPD 102 2X35/2X25 GY	5	1561680000
WPD 102 2X35/2X25 BL	5	1561640000
WPD 102 2X35/2X25 GN	5	1561670000
WPD 102 2X35/2X25 BN	5	1561650000
WPD 102 2X35/2X25 BK	5	1561630000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2	1	9008540000

**WPD 302**

**35 mm<sup>2</sup>**



66.6 / 49.3 / 55.7	
125 / 35	
2.5...35	

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000			
202			
35			
8 kV / 3			
III / V-0			
Rated connection			
4...35 / 4...35			
2.5...25 / 2.5...25			
2.5...25			
2.5...16			
22 / M6 (+/- PZ2)			
18 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
Imax: 214 A with the connection of 4 x 25 mm <sup>2</sup>			

Type	Qty.	Order No.
WPD 302 2X35/2X25 3XGY	2	1561740000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2	1	9008540000

Conductor connection data according to VDE 0603-2 (Cu), IEC 60947-7-1 (Cu), IEC 61238-1 Class A (Cu+Al)

Input (x2) / Output (x2)	Copper		Aluminum	Input (x2) / Output (x2)	Copper		Aluminum	
2x35 mm <sup>2</sup> (round conductor)				2x35 mm <sup>2</sup> (round conductor)				
35 mm <sup>2</sup>	3,5 Nm	3,5 Nm	8 Nm	35 mm <sup>2</sup>	3,5 Nm	3,5 Nm	6 Nm	
25 mm <sup>2</sup>			6 Nm	25 mm <sup>2</sup>				6 Nm
16 mm <sup>2</sup>			4 Nm	16 mm <sup>2</sup>				4 Nm
10 mm <sup>2</sup>				10 mm <sup>2</sup>				
6 mm <sup>2</sup>				6 mm <sup>2</sup>				
4 mm <sup>2</sup>				4 mm <sup>2</sup>				
2.5 mm <sup>2</sup>				2.5 mm <sup>2</sup>				
1.5 mm <sup>2</sup>				1.5 mm <sup>2</sup>				
Stripping lengths	22 mm			Stripping lengths	18 mm			
screw	M6 (+/- PZ2)			screw	M6 (+/- PZ2)			



Stranded

Solid

Flexible with ferrule

Conductor connection data according to UL 1059 (Al+Cu)

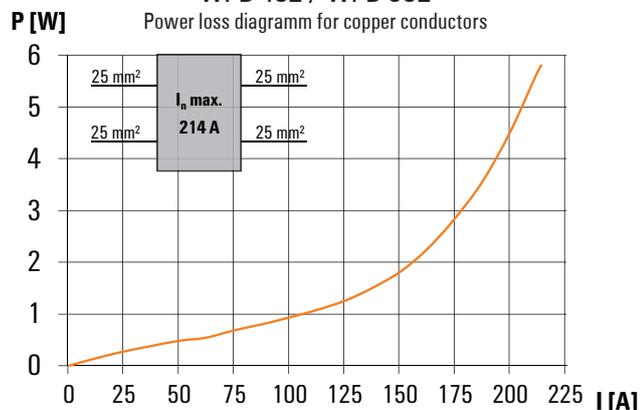
Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum		
AWG 4	31 Lb In	31 Lb In	70,8 Lb In	22,1 Lb In		
AWG 6			53 Lb In			
AWG 8			53 Lb In			
AWG 10						
AWG 12						
AWG 14						
AWG 16						
max. current	125 A	115 A	90 A	85 A	65 A	65 A
Voltage size B,C (UR)	600 V					

CSA Rating data according to CSA 22.2 No. 158

Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum		
AWG 4	3,5 Nm	3,5 Nm	8 Nm	3,5 Nm		
AWG 6			6 Nm			
AWG 8			4 Nm			
AWG 10						
AWG 12						
AWG 14						
AWG 16						
max. current	125 A	85 A	90 A	85 A	65 A	65 A
Voltage size B,C (UR)	600 V					

WPD 102 / WPD 302

Power loss diagramm for copper conductors



W-Series  
WPD 202 4X35/4X25



WPD 202

35 mm<sup>2</sup>



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

43.2 / 49.3 / 55.7	
125 / 35	
2.5...35	

Technical data

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	35 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	35 mm <sup>2</sup>	mm/-
	25 mm <sup>2</sup>	mm/-
Tightening torque		Nm
Note		

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000			
202			
35			
8 kV / 3			
III / V-0			
CE			
Rated connection			
4...35 / 4...35			
2.5...25 / 2.5...25			
2.5...25			
2.5...16			
22 / M6 (+/- PZ2)			
18 / M6 (+/- PZ2)			
see appendix at the end of the chapter			
I <sub>max</sub> : 428 A with the connection of 8 x 25 mm <sup>2</sup>			



Ordering data

Version	
	light grey
	blue
	green
	brown
	black
Note	

Type	Qty.	Order No.
WPD 202 4X35/4X25 GY	2	1561730000
WPD 202 4X35/4X25 BL	2	1561700000
WPD 202 4X35/4X25 GN	2	1561620000
WPD 202 4X35/4X25 BN	2	1561720000
WPD 202 4X35/4X25 BK	2	1561690000

Accessories

End bracket	
	dark beige
	dark beige
Screwdriver	

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000



Conductor connection data according to VDE 0603-2 (Cu), IEC 60947-7-1 (Cu), IEC 61238-1 Class A (Cu+Al)

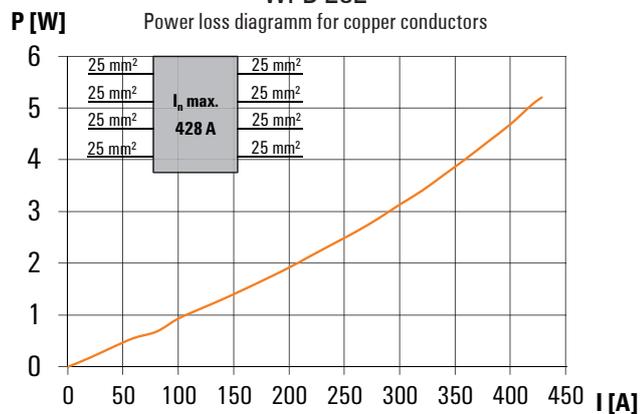
Input (x4) / Output (x4)	Copper		Aluminum
4x35 mm <sup>2</sup> (round conductor)			
35 mm <sup>2</sup>	3,5 Nm	3,5 Nm	8 Nm
25 mm <sup>2</sup>			6 Nm
16 mm <sup>2</sup>			4 Nm
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2.5 mm <sup>2</sup>			
1.5 mm <sup>2</sup>			
Stripping lengths	22 mm		
screw	M8 (+/- PZ2)		

Input (x4) / Output (x4)	Copper		Aluminum
4x25 mm <sup>2</sup> (round conductor)			
35 mm <sup>2</sup>	3,5 Nm	3,5 Nm	6 Nm
25 mm <sup>2</sup>			4 Nm
16 mm <sup>2</sup>			
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
2.5 mm <sup>2</sup>			
1.5 mm <sup>2</sup>			
Stripping lengths	18 mm		
screw	M6 (+/- PZ2)		



WPD 202

Power loss diagramm for copper conductors



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 103 2X70/2X50**



**WPD 103**

**70 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

32.9 / 53.1 / 63	
192 / 70	
4...70	

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	70 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	70 mm <sup>2</sup>	mm <sup>2</sup>
	50 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	70 mm <sup>2</sup>	mm <sup>2</sup>
	50 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	70 mm <sup>2</sup>	mm/-
	50 mm <sup>2</sup>	mm/-
Tightening torque		Nm
Note		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600		
300	160		
70	AWG 12...2/0		
8 kV / 3			
III / V-0			
Rated connection			
10...70 / 10...70			
6...50 / 6...50			
6...50			
4...35			
25 / M10 (SW 4)			
20 / M8 (SW 4)			
see appendix at the end of the chapter			
I <sub>max</sub> : 320 A with the connection of 4 x 50 mm <sup>2</sup>			



**Ordering data**

Version	
	light grey
	blue
	green
	brown
	black
Note	

Type	Qty.	Order No.
WPD 103 2X70/2X50 GY	3	1561770000
WPD 103 2X70/2X50 BL	3	1561780000
WPD 103 2X70/2X50 GN	3	1561790000
WPD 103 2X70/2X50 BN	3	1561820000
WPD 103 2X70/2X50 BK	3	1561830000



**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SK WSD-S 1,5-10,0	1	9008850000



Conductor connection data according to VDE 0603-2 (Cu), IEC 60947-7-1 (Cu), IEC 61238-1 Class A (Cu+Al)

Input (x2) / Output (x2)	Copper		Aluminum
2x70 mm <sup>2</sup> (round conductor)			
70 mm <sup>2</sup>	10 Nm	10 Nm	18 Nm
50 mm <sup>2</sup>			10 Nm
35 mm <sup>2</sup>			8 Nm
25 mm <sup>2</sup>			6 Nm
16 mm <sup>2</sup>			4 Nm
10 mm <sup>2</sup>			
6 mm <sup>2</sup>			
4 mm <sup>2</sup>			
Stripping lengths	25 mm		
screw	M10 (SW 4 mm)		

Input (x2) / Output (x2)	Copper		Aluminum	
2x90 mm <sup>2</sup> (round conductor)				
70 mm <sup>2</sup>	6 Nm	6 Nm	10 Nm	
50 mm <sup>2</sup>			8 Nm	
35 mm <sup>2</sup>			6 Nm	
25 mm <sup>2</sup>			4 Nm	
16 mm <sup>2</sup>				
10 mm <sup>2</sup>				
6 mm <sup>2</sup>				
4 mm <sup>2</sup>				
Stripping lengths	20 mm			
screw	M8 (SW 4 mm)			



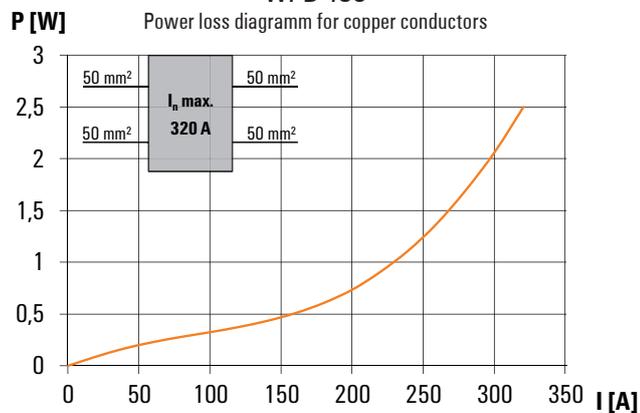
Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)		XCFR2.E60693				
Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum		
AWG 4	88.5 Lb In	88.5 Lb In	159 Lb In	53.1 Lb In		
AWG 6			88.5 Lb In		88.5 Lb In	
AWG 8			70.8 Lb In		70.8 Lb In	
AWG 10			53 Lb In		53 Lb In	
AWG 12					35 Lb In	
AWG 14						
AWG 16						
max. current	160 A	150 A	135 A	150 A	115 A	120 A
Voltage size B,C (UR)	600 V					

CSA Rating data according to CSA 22.2 No. 158

Certificate no. (cURus)		XCFR2.E60693				
Input (line)	Line		Load			
	Copper	Aluminum	Copper	Aluminum		
AWG 4	10 Nm	10 Nm	18 Nm	6 Nm		
AWG 6			10 Nm		10 Nm	
AWG 8			8 Nm		8 Nm	
AWG 10			6 Nm		6 Nm	
AWG 12					4 Nm	
AWG 14						
AWG 16						
max. current	160 A	150 A	135 A	150 A	115 A	120 A
Voltage size B,C (UR)	600 V					

WPD 103





## Phase distributor blocks

### Klippon® Connect WPD terminal blocks for power distribution

Compared to conventional potential distribution blocks (PDB), the WPD have a core made of brass. The compact brass core with its special coating, in combination with the hexagonal screws, enables the connection of both round and sector-shaped copper and aluminum wires in the cross-section range from 1.5 mm<sup>2</sup> up to 185 mm<sup>2</sup>, as well as flat bus-bars or laminated copper bars. The hexagonal drive with fine pitch thread simplifies the transmission of high torques and the turned screw head ensures carefully and equally divided tightening forces on the conductor. In combination with the

compact brass core, the required high tightening torques can be achieved when using aluminum conductors.

Thanks to the additional contact identification, each contact point on the distribution terminal (PDB) can be clearly matched to the connection point in the circuit diagram. All potential distribution blocks (PDB) can be quickly and easily mounted on the mounting plate or TS 35 DIN rail according to IEC 60715 / DIN EN 50022.

Finger safety according to DIN EN 50274

Marking of the connection points

Optimized screw connection system

Compact design

Brass core with special coating

Large connection area

Connection for flat busbars or cross-connections

Flexible stackable

Direct mounting on mounting plate

Mounting on TS 35 DIN rail



### Maximum wiring density

In contrast to conventional setups with standard terminal blocks, the special step design allows enormous space savings.

### Copper and aluminum conductors

The special triple coating enables the contacting of copper and aluminum conductors in solid, stranded or fine-stranded, as well as in round or sector-shaped design.

### Flexibly expandable

For better mechanical stability, the phase distribution blocks can be easily snapped together. In addition, an external cross-connection allows the multiplication of the potentials on up to 2 further blocks of the same design.

**Power distribution**  
**Screw connection**

**W-Series**

**WPD 104 1X25+1X16/2X16+3X10**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	25 mm <sup>2</sup> mm <sup>2</sup>
Short Circuit Current Rating (SCCR)	
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
	10 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
	10 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	25 mm <sup>2</sup> mm/-
	16 mm <sup>2</sup> mm/-
	10 mm <sup>2</sup> mm/-
Tightening torque	Nm
<b>Note</b>	

**Ordering data**

Version	
	grey
	blue
	red
	black
<b>Note</b>	

**Accessories**

Cross connection	
	2-pole
	3-pole
End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

**WPD 104**

**25 mm<sup>2</sup>**



31.5 / 49 / 68	10 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>
101 / 25				
1.5...25				

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	600	600	550
164	85	85	101
25	AWG 16...4	AWG 16...4	25
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
Rated connection			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
1.5...10 / 1.5...10			
1.5...16			
1.5...10			
1.5...6			
12 / M5			
14 / M6			
19 / M6			
see appendix at the end of the chapter			

Type	Qty.	Order No.
WPD 104 1X25+1X16/2X16+3X10 GY	1	1562000000
WPD 104 1X25+1X16/2X16+3X10 BL	1	2518250000
WPD 104 1X25+1X16/2X16+3X10 RD	1	2725260000
WPD 104 1X25+1X16/2X16+3X10 BK	1	2725360000

Type	Qty.	Order No.
WQB WPD X04/2	20	1561980000
WQB WPD X04/3	20	1561990000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000

**WPD 204**

**25 mm<sup>2</sup>**



63 / 49 / 68	10 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>
101 / 25				
1.5...25				

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000			550
164			101
25			25
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
Rated connection			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
1.5...10 / 1.5...10			
1.5...16			
1.5...10			
1.5...6			
12 / M5			
14 / M6			
19 / M6			
see appendix at the end of the chapter			

Type	Qty.	Order No.
WPD 204 2X25/4X16+6X10 2XGY	1	1562150000
WPD 204 2X25/4X16+6X10 2XBL	1	2518330000
WPD 204 2X25/4X16+6X10 2XRD	1	2725290000
WPD 204 2X25/4X16+6X10 2XBK	1	2725390000

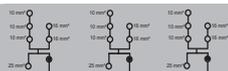
Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000

WPD 304

25 mm<sup>2</sup>



94.5 / 49 / 68  
101 / 25  
1.5...25



IEC 60947-7-1

II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000			550
164			101
25			25

8 kV / 3  
III / V-0



CNEX 16 ATEX0005U

Rated connection

2.5...25 / 2.5...25

1.5...16 / 1.5...16

1.5...10 / 1.5...10

1.5...16

1.5...10

1.5...6

12 / M5

14 / M6

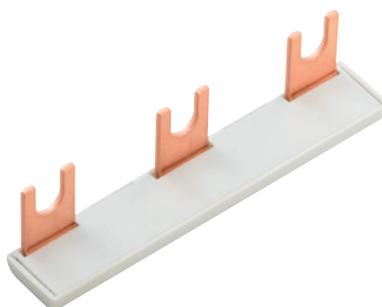
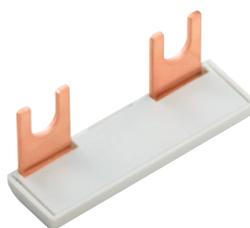
19 / M6

see appendix at the end of the chapter



Type	Qty.	Order No.
WPD 304 3X25/6X16+9X10 3XGY	1	1562160000
WPD 304 3X25/6X16+9X10 3XBL	1	2518340000
WPD 304 3X25/6X16+9X10 3XRD	1	2725300000
WPD 304 3X25/6X16+9X10 3XBK	1	2725400000

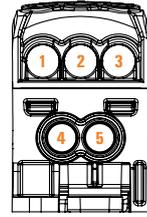
Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



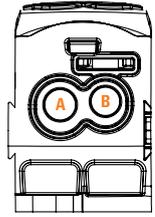
**Power distribution**  
**Screw connection**

**Conductor connection data according to IEC 60947-7-1 (Cu)**

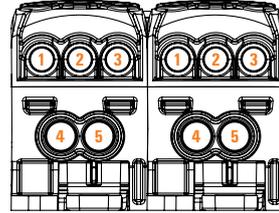
Input	connection point A			
	Copper		Aluminum*	
				
25 mm <sup>2</sup>	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm
16 mm <sup>2</sup>				
10 mm <sup>2</sup>				
6 mm <sup>2</sup>				
4 mm <sup>2</sup>				
2,5 mm <sup>2</sup>				
1,5 mm <sup>2</sup>				
Stripping lengths	19 mm			
Allen screw	M6			
* Values according to UL 1059				



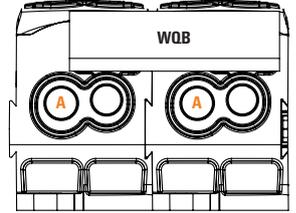
output



input



output

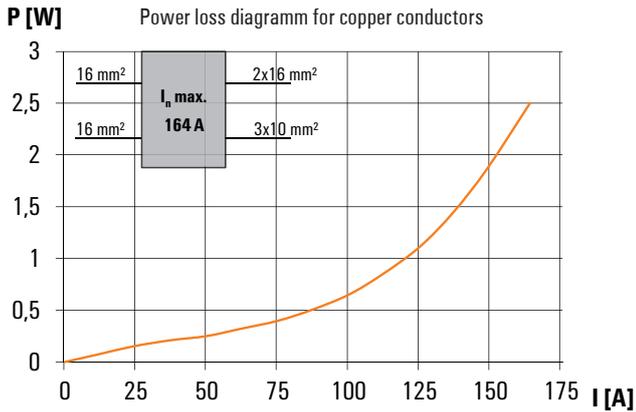


input

Output	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminum*		Copper		Aluminum*		Copper		Aluminum*	
												
16 mm <sup>2</sup>	2 Nm	2 Nm	5,1 Nm	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm	
10 mm <sup>2</sup>												
6 mm <sup>2</sup>												
4 mm <sup>2</sup>												
2,5 mm <sup>2</sup>												
1,5 mm <sup>2</sup>												
Stripping lengths	12 mm				14 mm				19 mm			
Allen screw	M5				M6				M6			
* Values according to UL 1059												



**WPD 104**



### Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)		XCFR2.E60693			
		connection point A			
Input (line)	Copper	Aluminum			
					
AWG 4	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	45.1 Lb In.	
AWG 6					
AWG 8					
AWG 10					
AWG 12					
max. current	85 A	65 A	65 A	50 A	
Voltage size B,C (UR)	600 V				

output (load)	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminum		Copper		Aluminum		Copper		Aluminum	
												
AWG 4	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	22.1 Lb In.	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	45.1 Lb In.	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	22.1 Lb In.
AWG 6												
AWG 8												
AWG 10												
AWG 12												
AWG 14												
AWG 16												
max. current	65 A	50 A	50 A	85 A	65 A	65 A	50 A	65 A	50 A	50 A	50 A	
Voltage size B,C (UR)	600 V											



Mehrdrätig

Eindrätig

Feindrätig mit Aderendhülse

### CSA Rating data according to CSA 22.2 No. 158

Certificate No. (CSA)		269832			
	Input		Output		
	CP* A	CP* 1/2/3	CP* 4/5	CP*B	
AWG 4	2,5 Nm.	2,5 Nm	2,5 Nm	2,5 Nm	
AWG 6					
AWG 8					
AWG 10					
AWG 12					
AWG 14					
AWG 16					
max. current	85 A	50 A	50 A	65 A	
Voltage size C (CSA)	600 V				

\* CP - connection point

**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 105 1X35+1X16/2X25+3X16**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	35 mm <sup>2</sup> mm <sup>2</sup>
Short Circuit Current Rating (SCCR)	
Rated impulse withstand voltage / Pollution severity	
Overvoltage category / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	35 mm <sup>2</sup> mm <sup>2</sup>
	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	35 mm <sup>2</sup> mm <sup>2</sup>
	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	35 mm <sup>2</sup> mm/-
	25 mm <sup>2</sup> mm/-
	16 mm <sup>2</sup> mm/-
Tightening torque	Nm
<b>Note</b>	

**Ordering data**

<b>Version</b>	
	grey
	blue
	red
	black
<b>Note</b>	

**Accessories**

<b>Cross connection</b>	
	2-pole
	3-pole
<b>End bracket</b>	
	dark beige
	dark beige
<b>Screwdriver</b>	
	SET

**WPD 105**

**35 mm<sup>2</sup>**



35.6 / 53.7 / 70	16 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	35 mm <sup>2</sup>
125 / 35				
1.5...35	25 mm <sup>2</sup>			

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000	600	600	690
214	115	85	125
35	AWG 16...2	AWG 16...2	35
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
<b>Rated connection</b>			
4...35 / 4...35			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
2.5...25			
1.5...16			
1.5...10			
19 / M8			
14 / M6			
12 / M6			
see appendix at the end of the chapter			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 105 1X35+1X16/2X25+3X16 GY	1	1562170000
WPD 105 1X35+1X16/2X25+3X16 BL	1	2518540000
WPD 105 1X35+1X16/2X25+3X16 RD	1	2725310000
WPD 105 1X35+1X16/2X25+3X16 BK	1	2725410000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WQB WPD X05/2	20	1561960000
WQB WPD X05/3	20	1561970000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000

**WPD 205**

**35 mm<sup>2</sup>**



71.2 / 53.7 / 70	16 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	35 mm <sup>2</sup>
125 / 35				
1.5...35	25 mm <sup>2</sup>			

**IEC 60947-7-1**

Ex II 2 GD  
Ex eb IIC Gb

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1000			690
214			125
35			35
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
<b>Rated connection</b>			
4...35 / 4...35			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
2.5...25			
1.5...16			
1.5...10			
19 / M8			
14 / M6			
12 / M6			
see appendix at the end of the chapter			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WPD 205 2X35/4X25+6X16 2XGY	1	1562180000
WPD 205 2X35/4X25+6X16 2XBL	1	2519470000
WPD 205 2X35/4X25+6X16 2XRD	1	2725320000
WPD 205 2X35/4X25+6X16 2XBK	1	2725420000

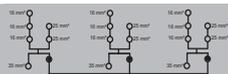
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000

WPD 305

35 mm<sup>2</sup>



106.8 / 53.7 / 70  
125 / 35  
1.5...35



IEC 60947-7-1

II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000			690
214			125
35			35

8 kV / 3  
III / V-0



CNEX 16 ATEX0005U

**Rated connection**

4...35 / 4...35

2.5...25 / 2.5...25

1.5...16 / 1.5...16

2.5...25

1.5...16

1.5...10

19 / M8

14 / M6

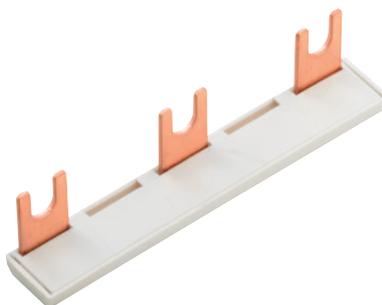
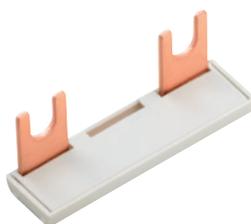
12 / M6

see appendix at the end of the chapter



Type	Qty.	Order No.
WPD 305 3X35/6X25+9X16 3XGY	1	1562190000
WPD 305 3X35/6X25+9X16 3XBL	1	2521770000
WPD 305 3X35/6X25+9X16 3XRD	1	2725330000
WPD 305 3X35/6X25+9X16 3XBK	1	2725430000

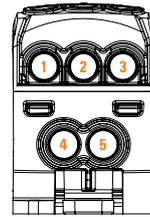
Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



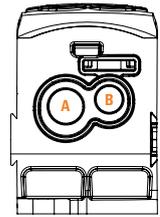
**Power distribution**  
**Screw connection**

**Conductor connection data according to IEC 60947-7-1 (Cu)**

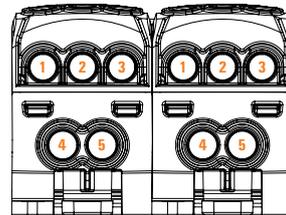
Input	connection point A			
	Copper		Aluminum*	
35 mm <sup>2</sup>	3,5 Nm	3,5 Nm	11,3 Nm	11,3 Nm
25 mm <sup>2</sup>				
16 mm <sup>2</sup>				
10 mm <sup>2</sup>				
6 mm <sup>2</sup>				
4 mm <sup>2</sup>				
2,5 mm <sup>2</sup>				
Stripping lengths	19 mm			
Allen screw	M8			
* Values according to UL 1059				



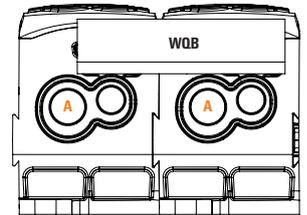
output



input



output



input

Output	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminum*		Copper		Aluminum*		Copper		Aluminum*	
25 mm <sup>2</sup>	2 Nm	2 Nm	5,1 Nm	5,1 Nm	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm
16 mm <sup>2</sup>												
10 mm <sup>2</sup>												
6 mm <sup>2</sup>												
4 mm <sup>2</sup>												
2,5 mm <sup>2</sup>												
1,5 mm <sup>2</sup>												
Stripping lengths	12 mm				14 mm				19 mm			
Allen screw	M6				M6				M6			
* Values according to UL 1059												



Stranded



Solid



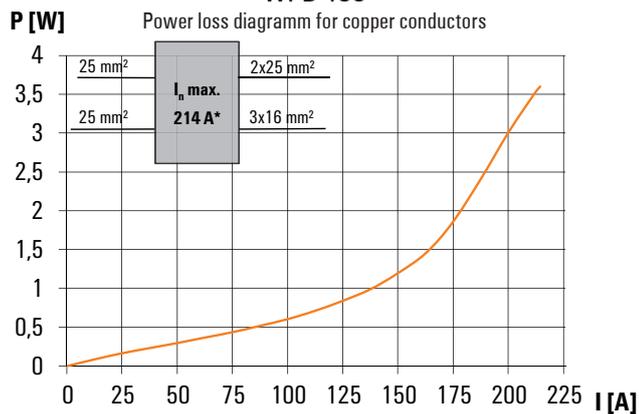
Flexible with ferrule



Sector shaned

**WPD 105**

Power loss diagramm for copper conductors



### Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)		XCFR2.E60693			
connection point A					
Input (line)	Copper		Aluminum		
					
AWG 2	31 Lb In.	31 Lb In.	100 Lb In.	100 Lb In.	
AWG 4					
AWG 6					
AWG 8					
AWG 10					
AWG 12					
max. current	115 A	85 A	90 A	65 A	
Voltage size B,C (UR)	600 V				

output (load)	connection point 1/2/3				connection point 4/5				connection point B				
	Copper		Aluminum		Copper		Aluminum		Copper		Aluminum		
													
AWG 4	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	22.1 Lb In.	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	45.1 Lb In.	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	50 A	
AWG 6													
AWG 8													
AWG 10													
AWG 12													
AWG 14													
AWG 16													
max. current	65 A	50 A	50 A	85 A	65 A	65 A	50 A	65 A	50 A	50 A	50 A		
Voltage size B,C (UR)	600 V												

 Stranded     
  Solid     
  Flexible with ferrule     
  Sector shaped

### CSA Rating data according to CSA 22.2 No. 158

Certificate No. (CSA)		269832			
	Input		Output		
	CP* A	CP* 1/2/3	CP* 4/5	CP*B	
AWG 4	31 Lb In.	22.1 Lb In.	22.1 Lb In.	22.1 Lb In.	22.1 Lb In.
AWG 4					
AWG 6					
AWG 8					
AWG 10					
AWG 12					
AWG 14					
AWG 16					
max. current	115 A	85 A	85 A	85 A	
Voltage size C (CSA)	600 V				

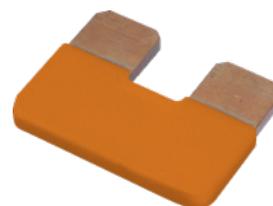
\* CP - connection point

**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 106 1X70/2X25+3X16**



**WPD 106** 70 mm<sup>2</sup>



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

39.5 / 50.4 / 70	16 mm <sup>2</sup>	15.5 x 5	70 mm <sup>2</sup>
192 / 70	25 mm <sup>2</sup>		
1.5...70			

**Technical data**

Rated data		
Rated voltage	V	
Rated current	A	
for wire cross-section	70 mm <sup>2</sup>	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)		
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	70 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	70 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	70 mm <sup>2</sup>	mm/-
	25 mm <sup>2</sup>	mm/-
	16 mm <sup>2</sup>	mm/-
Tightening torque	Nm	
<b>Note</b>		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600	600	550
215	175	175	160
70	AWG 16...2/0	AWG 16...2/0	70

200 kA
8 kV / 3
III / V-0

Ex II 2 GD  
Ex eb IIC Gb

CE, UL, CSA, EN, RoHS, UKCA, Ex, ATEX, CNEX 16 ATEX0005U

Rated connection	
10...70 / 10...70	
2.5...25 / 2.5...25	
1.5...16 / 1.5...16	
6...50	
1.5...16	
1.5...10	
19 / M8	
14 / M6	
12 / M6	

see appendix at the end of the chapter

**Ordering data**

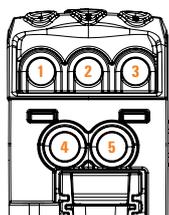
Version	
	grey
	blue
	red
	black
<b>Note</b>	

Type	Qty.	Order No.
WPD 106 1X70/2X25+3X16 GY	1	1562210000
WPD 106 1X70/2X25+3X16 BL	1	2518570000
WPD 106 1X70/2X25+3X16 RD	1	2725340000
WPD 106 1X70/2X25+3X16 BK	1	2725440000

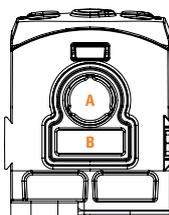
**Accessories**

Cross connection	
	2-pole
End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

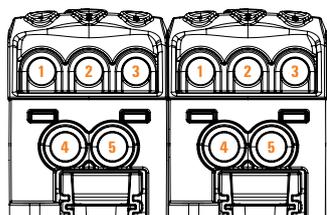
Type	Qty.	Order No.
WQB WPD X06/2	20	1561940000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



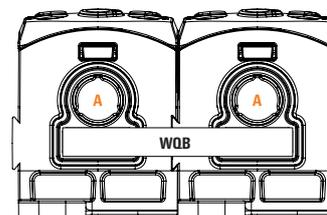
output



input



output

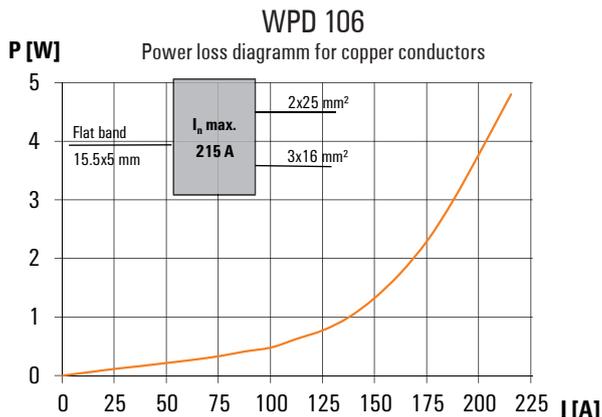


input

Conductor connection data according to IEC 60947-7-1 (Cu)

Input	connection point A				CP** B Copper
	Copper		Aluminum*		
70 mm <sup>2</sup>	10 Nm	10 Nm	13,6 Nm	13,6 Nm	
50 mm <sup>2</sup>					
35 mm <sup>2</sup>					
25 mm <sup>2</sup>					
16 mm <sup>2</sup>					
10 mm <sup>2</sup>					
6 mm <sup>2</sup>					
Flat band 15,5x5 mm					2 Nm
Stripping lengths	19 mm				17 mm
Allen screw	M8				M5

\* Values according to UL 1059 \*\* CP - connection point



Output	connection point 1/2/3				connection point 4/5			
	Copper		Aluminum*		Copper		Aluminum*	
25 mm <sup>2</sup>	2 Nm	2 Nm	5,1 Nm		2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm
16 mm <sup>2</sup>								
10 mm <sup>2</sup>								
6 mm <sup>2</sup>								
4 mm <sup>2</sup>								
2,5 mm <sup>2</sup>								
1,5 mm <sup>2</sup>								
Stripping lengths	12 mm				14 mm			
Allen screw	M6				M6			

\* Values according to UL 1059



Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	XCFR2.E60693				CP** B Copper
	connection point A				
AWG 2/0	88.5 Lb In.	88.5 Lb In.	120.4 Lb In.	100 Lb In.	
AWG 1/0					
AWG 2					
AWG 4					
AWG 6					
AWG 8					
AWG 10					
Flat band 15.5x3.2 mm					17.4 Lb In.
max. current	160 A	150 A	135 A	120 A	160 A
Voltage size B,C (UR)	600 V				

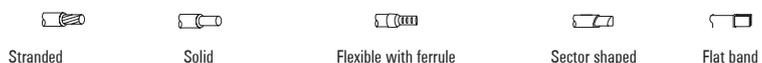
\*\* CP - connection point

CSA rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	269832					
	Input	Output	Output			
	CP* A	CP* 1/2/3	CP* 4/5			
AWG 2/0	10 Nm.					
AWG 1/0						
AWG 2						
AWG 4						
AWG 6						
AWG 8						
AWG 10	2 Nm	2 Nm				
AWG 12						
AWG 14						
AWG 16						
max. current				175 A	50 A	65 A
Voltage size C (CSA)				600 V		

\* CP - connection point

output (load)	connection point 1/2/3				connection point 4/5			
	Copper		Aluminum		Copper		Aluminum	
AWG 4	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.		22.6 Lb In.	22.6 Lb In.	45.1 Lb In.	45.1 Lb In.
AWG 6								
AWG 8								
AWG 10								
AWG 12								
AWG 14								
AWG 16								
max. current	65 A	50 A	50 A		85 A	65 A	65 A	50 A
Voltage size B,C (UR)	600 V							



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 107 1X95/2X35+8X25**



**WPD 107**

**95 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

51 / 54.5 / 73	
232 / 95	
1,5...95	

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	95 mm <sup>2</sup>	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)		
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	95 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	95 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	95 mm <sup>2</sup>	mm/-
	35 mm <sup>2</sup>	mm/-
	25 mm <sup>2</sup>	mm <sup>2</sup>
Tightening torque		Nm
<b>Note</b>		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	600	600	440
270	200	200	232
95	AWG 14...3/0	AWG 14...3/0	95
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
Rated connection			
16...95 / 16...95			
4...35 / 4...35			
2.5...25 / 2.5...25			
10...70			
2.5...25			
1.5...16			
14 / M12			
12 / M8			
12 / M6			
see appendix at the end of the chapter			

**Ex II 2 GD**  
**Ex eb IIC Gb**



**Ordering data**

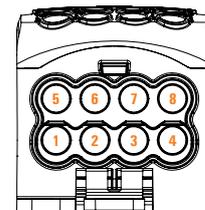
Version	
	grey
	blue
	red
	black
<b>Note</b>	

Type	Qty.	Order No.
WPD 107 1X95/2X35+8X25 GY	1	1562220000
WPD 107 1X95/2X35+8X25 BL	1	2521730000
WPD 107 1X95/2X35+8X25 RD	1	2725350000
WPD 107 1X95/2X35+8X25 BK	1	2725450000

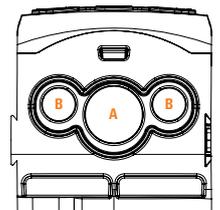
**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



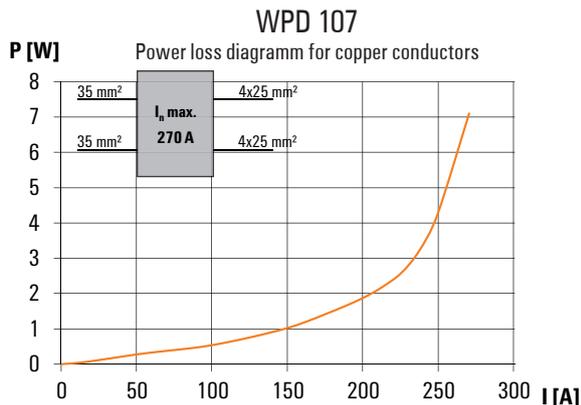
output



input

Conductor connection data according to IEC 60947-7-1 (Cu)

Input	connection point A			
	Copper		Aluminum*	
				
95 mm <sup>2</sup>	14 Nm	14 Nm	22,6 Nm	22,6 Nm
70 mm <sup>2</sup>				
50 mm <sup>2</sup>				
35 mm <sup>2</sup>				
25 mm <sup>2</sup>				
16 mm <sup>2</sup>				
10 mm <sup>2</sup>				
Stripping lengths	14 mm			
Allen screw	M12			
* Values according to UL 1059				



Output	connection point 1 - 8				connection point B			
	Copper		Aluminum*		Copper		Aluminum*	
								
35 mm <sup>2</sup>	2,5 Nm	2,5 Nm	5,1 Nm	5,1 Nm	3,5 Nm	3,5 Nm	11,3 Nm	11,3 Nm
25 mm <sup>2</sup>								
16 mm <sup>2</sup>								
10 mm <sup>2</sup>								
6 mm <sup>2</sup>								
4 mm <sup>2</sup>								
2.5 mm <sup>2</sup>								
1.5 mm <sup>2</sup>								
Stripping lengths	12 mm				12 mm			
Allen screw	M6				M8			
* Values according to UL 1059								



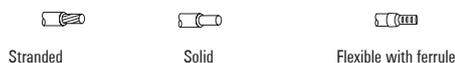
Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	XCFR2.E60693				
Input (line)	connection point A				
	Copper		Aluminum		
					
AWG 3/0	124 Lb In.	124 Lb In.	200 Lb In.	200 Lb In.	
AWG 2/0					
AWG 1/0					
AWG 2					
AWG 4					
AWG 6					
AWG 8					
max. current	200 A	175 A	155 A	130 A	
Voltage size B,C (UR)	600 V				

CSA rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	269832		
	Input	Output	
	CP* A	CP* 1 - 8	CP* B
AWG 3/0	14 Nm.		
AWG 2/0			
AWG 1/0			
AWG 2			
AWG 4			
AWG 6			
AWG 8	2,5 Nm	6 Nm	
AWG 10			
AWG 12			
AWG 14			
max. current	200 A	85 A	115 A
Voltage size C (CSA)	600 V		
* CP - connection point			

output (load)	connection point 1 - 8				connection point B			
	Copper		Aluminum		Copper		Aluminum	
								
AWG 2	22.1 Lb In.	22.1 Lb In.	45.1 Lb In.	45.1 Lb In.	31 Lb In.	31 Lb In.	100 Lb In.	100 Lb In.
AWG 4								
AWG 6								
AWG 8								
AWG 10								
AWG 12								
AWG 14								
AWG 16								
max. current	85 A	65 A	65 A	50 A	115 A	85 A	90 A	65 A
Voltage size B,C (UR)	600 V							



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 108 1X120/2X35+3X25+4X16**



**WPD 108**

**120 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

51.1 / 77 / 95	
269 / 120	
1,5...120	

**Technical data**

Rated data		
Rated voltage	V	
Rated current	A	
for wire cross-section	120 mm <sup>2</sup>	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)		
Rated impulse withstand voltage / Pollution severity		
Overtoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	120 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	120 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	120 mm <sup>2</sup>	mm/-
	35 mm <sup>2</sup>	mm/-
	25 mm <sup>2</sup>	mm <sup>2</sup>
	16 mm <sup>2</sup>	mm <sup>2</sup>
Tightening torque		Nm
Note		

**IEC 60947-7-1** Ex II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	600	600	880
400	255	255	250
120	AWG 16...250 kcmil	AWG 16...250 kcmil	120
200 kA			
8 kV / 3			
III / V-0			
CNEX 16 ATEX0005U			
Rated connection			
35...120 / 35...120			
4...35 / 4...35			
2.5...25 / 2.5...25			
1.5...16 / 1.5...16			
25...95			
2.5...25			
1.5...16			
1.5...10			
27 / M14			
18 / M8			
12 / M6			
12 / M6			
see appendix at the end of the chapter			

**Ordering data**

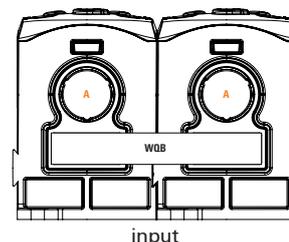
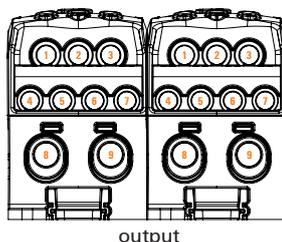
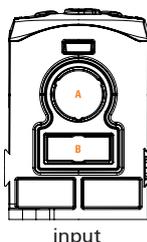
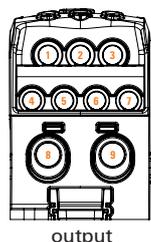
Version	
	grey
	blue
	red
	black
Note	

Type	Qty.	Order No.
WPD 108 1X120/2X35+3X25+4X16 GY	1	1562100000
WPD 108 1X120/2X35+3X25+4X16 BL	1	2519480000
WPD 108 1X120/2X35+3X25+4X16 RD	1	2725280000
WPD 108 1X120/2X35+3X25+4X16 BK	1	2725380000

**Accessories**

Cross connection	
	2-pole
End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

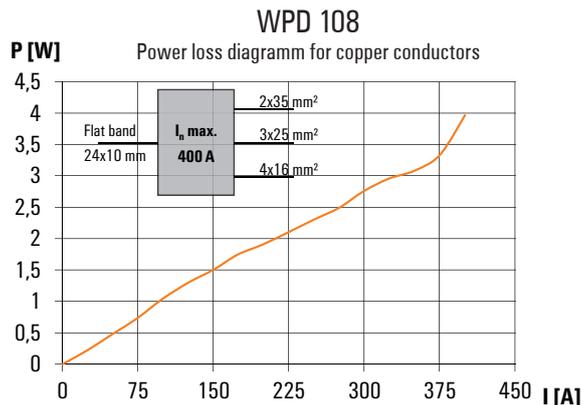
Type	Qty.	Order No.
WQB WPD X08-09/2	20	1561900000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



Conductor connection data according to IEC 60947-7-1 (Cu)

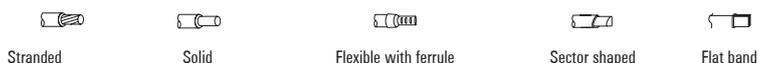
Input	connection point A				CP* B Copper
	Copper		Aluminum*		
					
120 mm <sup>2</sup>	19 Nm	19 Nm	22,6 Nm	22,6 Nm	
95 mm <sup>2</sup>					
70 mm <sup>2</sup>					
50 mm <sup>2</sup>					
35 mm <sup>2</sup>					
25 mm <sup>2</sup>					
Flat band 24x10mm					3 Nm
Stripping lengths	27 mm				22 mm
Allen screw	M14				M6

\* Values according to UL 1059 \*\* CP - connection point



Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminum*		Copper		Aluminum*		Copper		Aluminum*	
												
35 mm <sup>2</sup>	2 Nm	2 Nm	5,1 Nm	5,1 Nm	2 Nm	2 Nm	5,1 Nm		2,5 Nm	2,5 Nm	11,3 Nm	11,3 Nm
25 mm <sup>2</sup>												
16 mm <sup>2</sup>												
10 mm <sup>2</sup>												
6 mm <sup>2</sup>												
4 mm <sup>2</sup>												
2.5 mm <sup>2</sup>												
1.5 mm <sup>2</sup>												
Stripping lengths	12 mm				12 mm				18 mm			
Allen screw	M6				M6				M8			

\* Values according to UL 1059



Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	XCFR2.E60693				CP* B Copper
	connection point A				
Input (line)	Copper		Aluminum		
					
kcmil 250	168.2 Lb In.	168.2 Lb In.	200 Lb In.	200 Lb In.	
AWG 4/0					
AWG 3/0					
AWG 2/0					
AWG 1/0					
AWG 2					
AWG 4					
Flat band 24x10 mm					17.7 Lb In.
max. current	250 A	200 A	155 A	205 A	250 A
Voltage size B,C (UR)	600 V				

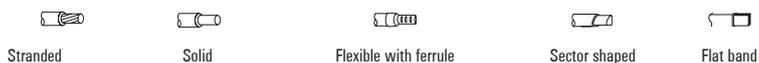
\* CP - connection point

CSA rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	269832			
	Input		Output	
	CP* A	CP* 1/2/3	CP* 4/5/6/7	CP* B
kcmil 250	19 Nm.			
AWG 2	19 Nm			
AWG 4				
AWG 6				
AWG 8				
AWG 10		3 Nm	3 Nm	6 Nm
AWG 12				
AWG 14				
AWG 16				
max. current	255 A	85 A	65 A	115 A
Voltage size C (CSA)	600 V			

\* CP - connection point

Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminum		Copper		Aluminum		Copper		Aluminum	
												
AWG 2	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.	45.1 Lb In.	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.		53.1 Lb In.	53.1 Lb In.	100 Lb In.	100 Lb In.
AWG 4												
AWG 6												
AWG 8												
AWG 10												
AWG 12												
AWG 14												
AWG 16												
max. current	85 A	65 A	65 A	50 A	65 A	50 A	50 A		115 A	85 A	90 A	65 A
Voltage size B,C (UR)	600 V											



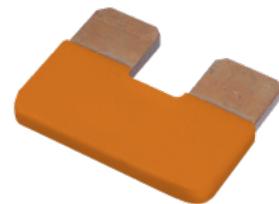
**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 109 1X185/2X35+3X25+4X16**



**WPD 109**

**185 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

55.1 / 77 / 95	16 mm <sup>2</sup>	24 x 10	185 mm <sup>2</sup>
353 / 185	25 mm <sup>2</sup>		
1,5...185	35 mm <sup>2</sup>		

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	185 mm <sup>2</sup> mm <sup>2</sup>

Short Circuit Current Rating (SCCR)  
Rated impulse withstand voltage / Pollution severity  
Overvoltage category / UL 94 flammability rating  
Approvals

<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	185 mm <sup>2</sup> mm <sup>2</sup>
	35 mm <sup>2</sup> mm <sup>2</sup>
	25 mm <sup>2</sup> mm <sup>2</sup>
Flexible with ferrule	16 mm <sup>2</sup> mm <sup>2</sup>
	185 mm <sup>2</sup> mm <sup>2</sup>
	35 mm <sup>2</sup> mm <sup>2</sup>
Stripping length / Blade size	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>
	185 mm <sup>2</sup> mm/-
	35 mm <sup>2</sup> mm/-
Tightening torque	25 mm <sup>2</sup> mm <sup>2</sup>
	16 mm <sup>2</sup> mm <sup>2</sup>

**Note**

**IEC 60947-1** II 2 GD  
Ex eb IIC Gb

IEC	UL	CSA	EN 60079-7
1000	600	600	880
490	310	310	353
185	AWG 16...350 kcmil	AWG 16...350 kcmil	185

200 kA  
8 kV / 3  
III / V-0

CE, CCC, UL, ENEC, Ex, ATEX, CENELEC, CNEC 16 ATEX0005U

**Bemessungsanschluss**

70...185 / 70...185
4...35 / 4...35
2.5...25 / 2.5...25
1.5...16 / 1.5...16
50...150
2.5...25
1.5...16
1.5...10
27 / M14
18 / M8
12 / M6
12 / M6

siehe Anhang am Kapitelende

**Ordering data**

<b>Version</b>	
	grey
	blue
	red
	black

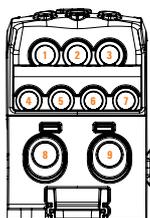
**Note**

Type	Qty.	Order No.
WPD 109 1X185/2X35+3X25+4X16 GY	1	1562090000
WPD 109 1X185/2X35+3X25+4X16 BL	1	2519490000
WPD 109 1X185/2X35+3X25+4X16 RD	1	2725270000
WPD 109 1X185/2X35+3X25+4X16 BK	1	2725370000

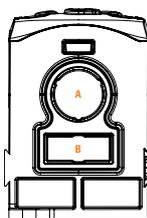
**Accessories**

<b>Cross connection</b>	2-pole
<b>End bracket</b>	dark beige dark beige
<b>Screwdriver</b>	SET

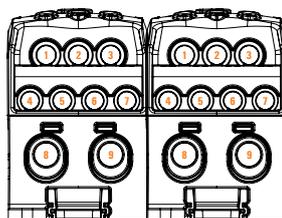
Type	Qty.	Order No.
WQB WPD X08-09/2	20	1561900000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



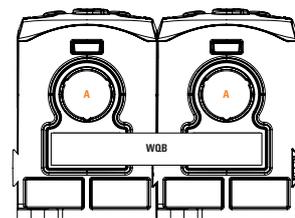
output



input



output

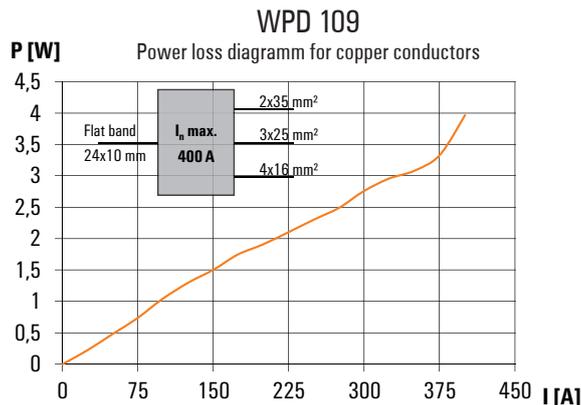


input

Conductor connection data according to IEC 60947-7-1 (Cu)

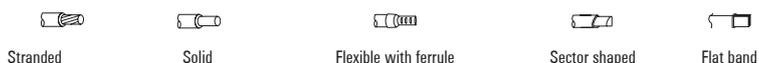
Input	connection point A				CP* B Copper
	Copper		Aluminum*		
185 mm <sup>2</sup>					
150 mm <sup>2</sup>	19 Nm	19 Nm	22,6 Nm	22,6 Nm	
120 mm <sup>2</sup>					
95 mm <sup>2</sup>					
70 mm <sup>2</sup>					
50 mm <sup>2</sup>					
Flat band 24x10mm					3 Nm
Stripping lengths	27 mm				22 mm
Allen screw	M14				M6

\* Values according to UL 1059 \*\* CP - connection point



Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminum*		Copper		Aluminum*		Copper		Aluminum*	
35 mm <sup>2</sup>												
25 mm <sup>2</sup>	2 Nm	2 Nm	5,1 Nm	5,1 Nm	2 Nm	2 Nm	5,1 Nm	5,1 Nm	2,5 Nm	2,5 Nm	11,3 Nm	11,3 Nm
16 mm <sup>2</sup>												
10 mm <sup>2</sup>												
6 mm <sup>2</sup>												
4 mm <sup>2</sup>												
2.5 mm <sup>2</sup>												
1.5 mm <sup>2</sup>												
Stripping lengths	12 mm				12 mm				18 mm			
Allen screw	M6				M6				M8			

\* Values according to UL 1059



Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	XCFR2.E60693				CP* B Copper
	connection point A				
Input (line)	Copper		Aluminum		
kcmil 350					
kcmil 300	249.6	249.6	398.3	398.3	
kcmil 250					
AWG 4/0					
AWG 3/0					
AWG 2/0					
AWG 1/0					17.7 Lb In.
Flat band 24x10 mm					
max. current	310 A	285 A	250 A	230 A	250 A
Voltage size B,C (UR)	600 V				

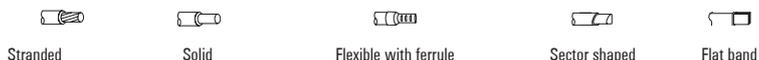
\* CP - connection point

CSA rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	269832			
	Input	Output		
	CP* A	CP* 1/2/3	CP* 4/5/6/7	CP* B
kcmil 250	19 Nm.	2Nm	2 Nm	3 Nm
AWG 2/0	19 Nm			
AWG 2				
AWG 4				
AWG 6				
AWG 8				
AWG 10				
AWG 12				
AWG 14				
AWG 16				
max. current	255 A	85 A	65 A	115 A
Voltage size C (CSA)	600 V			

\* CP - connection point

Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminum		Copper		Aluminum		Copper		Aluminum	
AWG 2												
AWG 4	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.	45.1 Lb In.	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.	45.1 Lb In.	53.1 Lb In.	53.1 Lb In.	100 Lb In.	100 Lb In.
AWG 6												
AWG 8												
AWG 10												
AWG 12												
AWG 14												
AWG 16												
max. current	85 A	65 A	65 A	50 A	65 A	50 A	50 A	115 A	85 A	90 A	65 A	
Voltage size B,C (UR)	600 V											



**Power distribution**  
**Screw connection**

**W-Series**  
**WPD 111 1X95/4X35**



**WPD 111**

**95 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

36.6 / 69.4 / 105	
232 / 95	
2.5...95	

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	95 mm <sup>2</sup>	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)		
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	95 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	95 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	95 mm <sup>2</sup>	mm/-
	35 mm <sup>2</sup>	mm/-
Tightening torque		Nm
<b>Note</b>		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	1000	1000	
232	230	230	
95	AWG 12...4/0	AWG 12...4/0	
			200 kA
			8 kV / 3
			III / V-0



Bemessungsanschluss	
16...95 / 16...95	
4...35 / 4...35	
10...70	
2.5...25	
21 / M12	
16 / M8	
see appendix at the end of the chapter	



**Ordering data**

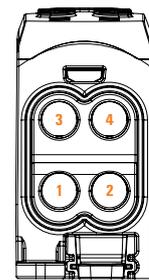
Version	
	grey
	blue
	red
	black
<b>Note</b>	

Type	Qty.	Order No.
WPD 111 1X95/4X35 GY	1	2603790000
WPD 111 1X95/4X35 BL	1	2603800000
WPD 111 1X95/4X35 RD	1	2730310000
WPD 111 1X95/4X35 BK	1	2730320000

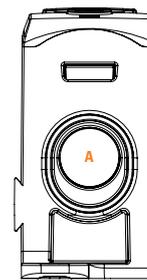
**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000



output



input

Conductor connection data according to IEC 60947-1 (Cu)

connection point A		connection point A	
Input	Copper	Output	Copper
1x 95 mm <sup>2</sup>	 	1x 35 mm <sup>2</sup>	 
95 mm <sup>2</sup>	14 Nm	35 mm <sup>2</sup>	6 Nm
70 mm <sup>2</sup>		25 mm <sup>2</sup>	
50 mm <sup>2</sup>		16 mm <sup>2</sup>	
35 mm <sup>2</sup>		10 mm <sup>2</sup>	
25 mm <sup>2</sup>		6 mm <sup>2</sup>	
16 mm <sup>2</sup>		4 mm <sup>2</sup>	
10 mm <sup>2</sup>		2,5 mm <sup>2</sup>	
Stripping lengths	21 mm	Stripping lengths	16 mm
Allen screw	M12	Allen screw	M8

				
Stranded	Solid	Flexible with ferrule	Sector shaped	Flat band

Conductor connection data according to 1059 (Al+Cu)

Certificate no. (UR) XCFR2.E60693

Input (line)	connection point A			
	Copper		Aluminum	
	 		 	
AWG 4/0	200 Lb In.	200 Lb In.	200 Lb In.	200 Lb In.
AWG 3/0				
AWG 2/0				
AWG 1/0				
AWG 1				
AWG 2				
AWG 3				
AWG 4				
AWG 6				
AWG 8				
max. current	230 A	200 A	180 A	155 A
Voltage size B,C (UR)	1000 V			

Output	connection point 1 / 2 / 3 / 4			
	Copper		Aluminum	
	 		 	
AWG 2	124.8 Lb In.	124.8 Lb In.	124.8 Lb In.	124.8 Lb In.
AWG 3				
AWG 4				
AWG 6				
AWG 8				
AWG 10				
AWG 12				
max. current	115 A	100 A	90 A	75 A
Voltage size B,C (UR)	1000 V			

**Power distribution**  
**Screw connection**

**W-Series**

**WPD 113 1X185+1X150/8X35**



**WPD 113**

**185 mm<sup>2</sup>**



Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

62.6 / 80.3 / 126.3	
353 / 185	
2.5...185	

**Technical data**

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	185 mm <sup>2</sup>	mm <sup>2</sup>
Short Circuit Current Rating (SCCR)		
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	185 mm <sup>2</sup>	mm <sup>2</sup>
	150 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
Flexible with ferrule	185 mm <sup>2</sup>	mm <sup>2</sup>
	150 mm <sup>2</sup>	mm <sup>2</sup>
	35 mm <sup>2</sup>	mm <sup>2</sup>
Stripping length / Blade size	185 mm <sup>2</sup>	mm/-
	150 mm <sup>2</sup>	mm/-
	35 mm <sup>2</sup>	mm/-
Tightening torque		Nm
<b>Note</b>		

**IEC 60947-7-1**

IEC	UL	CSA	EN 60079-7
1000	1000	1000	
353	310	310	
185	AWG 12...350 kcmil	AWG 12...350 kcmil	
		200 kA	
		8 kV / 3	
		III / V-0	
Rated connection			
90...185			
90...150			
4...35 / 4...35			
50...150			
50...120 / 50...120			
2.5...25			
33 / M16			
28 / M16			
16 / M8			
siehe Anhang am Kapitelende			
<b>Note</b>			

**Ordering data**

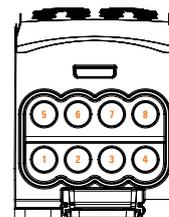
Version	
	grey
	blue
	red
	black
<b>Note</b>	

Type	Qty.	Order No.
WPD 113 1X185+1X150/8X35 GY	1	2603740000
WPD 113 1X185+1X150/8X35 BL	1	2603750000
WPD 113 1X185+1X150/8X35 RD	1	2730350000
WPD 113 1X185+1X150/8X35 BK	1	2730360000
<b>Note</b>		

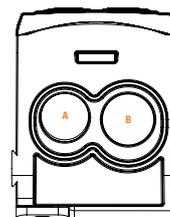
**Accessories**

End bracket	
	dark beige
	dark beige
Screwdriver	
	SET
<b>Note</b>	

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000
<b>Note</b>		



output



input

Conductor connection data according to IEC 60947-1 (Cu)

Input	connection point A		connection point B	
	Copper		Copper	
				
185 mm <sup>2</sup>	25 Nm	25 Nm	25 Nm	25 Nm
150 mm <sup>2</sup>				
120 mm <sup>2</sup>				
95 mm <sup>2</sup>				
70 mm <sup>2</sup>				
50 mm <sup>2</sup>				
Stripping lengths	33 mm		28 mm	
Allen screw	M16		M16	

Output	connection point 1-8	
	Copper	
		
35 mm <sup>2</sup>	6 Nm	6 Nm
25 mm <sup>2</sup>		
16 mm <sup>2</sup>		
10 mm <sup>2</sup>		
6 mm <sup>2</sup>		
4 mm <sup>2</sup>		
2,5 mm <sup>2</sup>		
Stripping lengths	16 mm	
Allen screw	M8	

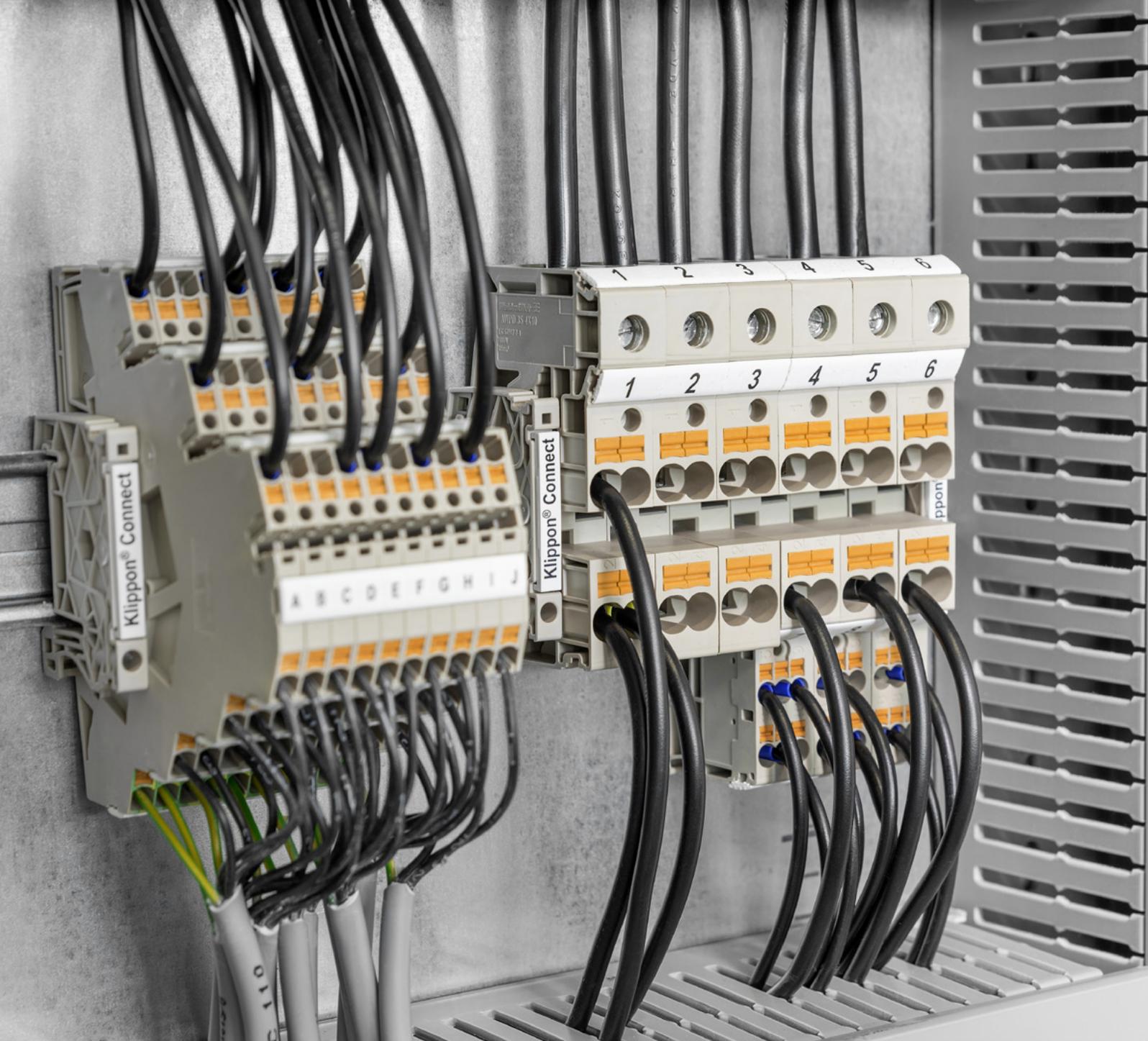
 Mehrdrätig  
 Eindrätig  
 Feindrätig mit Aderendhülse

Conductor connection data according to UL 1059 (Al+Cu)

Input (line)	connection point A				connection point B			
	Copper		Aluminum		Copper		Aluminum	
								
350 kcmil	249.6 Lb In.	249.6 Lb In.	398.3 Lb In.	398.3 Lb In.	249.6 Lb In.	249.6 Lb In.	398.3 Lb In.	398.3 Lb In.
300 kcmil								
250 kcmil								
AWG 4/0								
AWG 3/0								
AWG 2/0								
AWG 1/0								
max. current	310 A	285 A	250 A	230 A	285 A	255 A	230 A	205 A
Voltage size B,C (UR)	1000 V				1000 V			

Output	connection point 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8			
	Copper		Aluminum	
				
AWG 2	124.8 Lb In.	124.8 Lb In.	124.8 Lb In.	124.8 Lb In.
AWG 3				
AWG 4				
AWG 6				
AWG 8				
AWG 10				
AWG 12				
max. current	115 A	100 A	90 A	75 A
Voltage size B,C (UR)	1000 V			

 Stranded  
 Solid  
 Flexible with ferrule

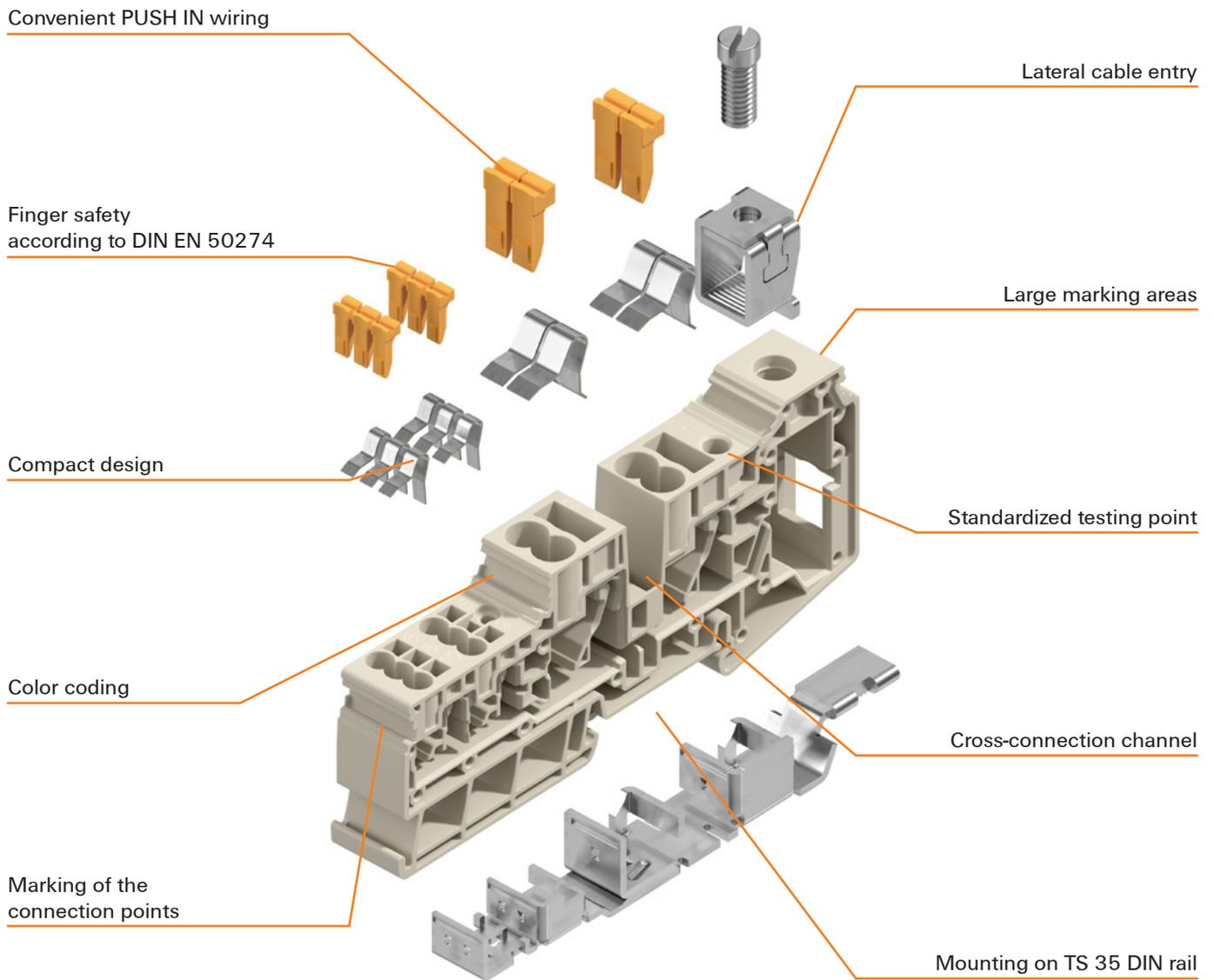


## Potential distribution terminal block

### Klippon® Connect AWPD hybride potential distribution terminal blocks

Hybrid AWPD modular terminal blocks for power distribution combine the advantages of clamping yoke and PUSH IN technology in one product. Power is supplied from the side of the terminal block using a reliable and proven screw connection with clamping yoke technology. The potential is collected or distributed via space-saving PUSH IN connections on the top of the terminal block. This ensures fast, simple, and tool-free wiring even in confined spaces.

Via the cross-connection options to the 1.5 mm<sup>2</sup> to 6 mm<sup>2</sup> SNAP IN and PUSH IN terminal blocks of the S-series and A-series, the potentials can also be safely and quickly multiplied to other terminal blocks. Thanks to the additional contact identification, each contact point on the distribution terminal can be clearly matched to the connection point in the circuit diagram.



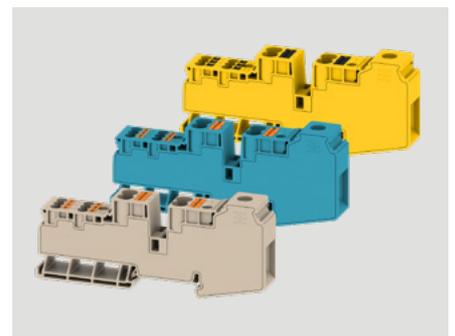
**Combination of the advantages of clamping yoke and PUSH IN technology**

The power feed-in takes place laterally at the terminal block with a reliable and proven screw connection with clamping yoke technology. The distribution of the potential is made via space-saving PUSH IN connections on the top of the terminal of the terminal block.



**Compatible with SNAP IN and PUSH IN terminal blocks**

Via the cross-connection options to the 1.5 mm<sup>2</sup> to 6 mm<sup>2</sup> SNAP IN and PUSH IN terminal blocks of the S-series and A-series, the potentials can also be safely and quickly multiplied to other terminal blocks.



**Color coding**

There are a total of three different color variants of the potential distribution blocks. On the one hand, these refer to the three phases with dark beige. On the other hand, the neutral conductor (blue) and the functional earth (yellow with black pusher).

**Power distribution  
Hybrid connection**

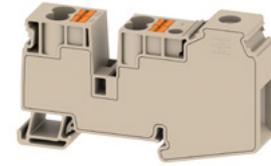
**AWPD 35 4X6/6X2.5**

**35 mm<sup>2</sup>**



**AWPD 35 4X10**

**35 mm<sup>2</sup>**



<b>Width / Height / Depth</b>	mm
max. current / max. conductor	A / mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

**16.2 x 125 x 50**

Screw 35 mm <sup>2</sup>	PUSH IN 35 mm <sup>2</sup>	PUSH IN 6 mm <sup>2</sup>
105 / 35	24 / 2.5	41 / 6
1.5...35	0.14...2.5	0.5...6

**16.2 x 95 x 60**

Screw 35 mm <sup>2</sup>	PUSH IN 10 mm <sup>2</sup>
105 / 35	50 / 10
1.5...35	1...10

**Technical data**

Rated voltage	Screw 35 mm <sup>2</sup>	V
	PUSH IN 2.5 mm <sup>2</sup>	V
	PUSH IN 6 mm <sup>2</sup>	V
	PUSH IN 10 mm <sup>2</sup>	V
Rated current	Screw 35 mm <sup>2</sup>	A
	PUSH IN 2.5 mm <sup>2</sup>	A
	PUSH IN 6 mm <sup>2</sup>	A
	PUSH IN 10 mm <sup>2</sup>	A
for wire cross-section	Screw 35 mm <sup>2</sup>	mm <sup>2</sup>
	PUSH IN 2.5 mm <sup>2</sup>	mm <sup>2</sup>
	PUSH IN 6 mm <sup>2</sup>	mm <sup>2</sup>
	PUSH IN 10 mm <sup>2</sup>	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	Gauge to IEC 60947-1	
UL 94 flammability rating	V-0	
Approvals		
<b>Clamped conductors (H05V/H07V)</b>		
Solid / Stranded	mm <sup>2</sup>	
flexible / flexible with ferrule	mm <sup>2</sup>	
Stripping length / Blade size	mm / mm	
Tightening torque	Nm	

**IEC 60947-1**

IEC	UL	CSA
1000	600	
1000	600	
1000	600	
110	105	
24	40	
41	20	
35	AWG 14...2	
2.5	AWG 20...8	
6	AWG 22...12	
<b>Screw 35 mm<sup>2</sup></b>	<b>PUSH IN 2.5 mm<sup>2</sup></b>	<b>PUSH IN 6 mm<sup>2</sup></b>
8kV / 3	8kV / 3	8kV / 3
B9	A3	A5
V-0	V-0	V-0
<b>Screw 35 mm<sup>2</sup></b>	<b>PUSH IN 2.5 mm<sup>2</sup></b>	<b>PUSH IN 6 mm<sup>2</sup></b>
1.5...35 / 1.5...35	0.5...4 / 0.14...2.5	0.5...10 / 0.5...6
1.5...35 / 1.5...35	0.5...2.5 / 0.5...2.5	0.5...6 / 0.5...6
17 / 1 x 5.5	10 / 0.6 x 3.5	12 / 1 x 5.5
2.5		

**IEC 60947-1**

IEC	UL	CSA
1000	600	
1000	600	
1000	600	
110	105	
57	50	
35	AWG 14...2	
10	AWG 20...6	
<b>Screw 35 mm<sup>2</sup></b>	<b>PUSH IN 10 mm<sup>2</sup></b>	
8kV / 3	8kV / 3	
B9	A6	
V-0	V-0	
<b>Screw 35 mm<sup>2</sup></b>	<b>PUSH IN 10 mm<sup>2</sup></b>	
1.5...35 / 1.5...35	1...10 / 1...10	
1.5...35 / 1.5...35	1...10 / 1...10	
17 / 1 x 5.5	18 / 1 x 5.5	
2.5		

**Ordering data**

<b>Version</b>	
	dark beige
	blue
	yellow/black

Type	Qty.	Order No.
AWPD 35 4X6/6X2.5	20	<b>2728620000</b>
AWPD 35 4X6/6X2.5 BL	20	<b>2860560000</b>
AWPD 35 4X6/6X2.5 FE	20	<b>2924980000</b>

Type	Qty.	Order No.
AWPD 35 4X10	20	<b>2728630000</b>
AWPD 35 4X10 BL	20	<b>2860570000</b>
AWPD 35 4X10 FE	20	<b>2924990000</b>

**Accessories**

<b>Pluggable cross-connection</b>	
for 1.5 mm <sup>2</sup>	2-pole
	10-pole
for 2.5 mm <sup>2</sup>	2-pole
	10-pole
for 6 mm <sup>2</sup>	2-pole
	10-pole
for 6 mm <sup>2</sup>	2-pole
	10-pole
<b>End bracket</b>	dark beige
<b>Test adapter</b>	
	1-pole
	1-pole
<b>Screwdriver</b>	
for 2.5 mm <sup>2</sup> PUSH IN	Standard
for 6 mm <sup>2</sup> PUSH IN	Standard
for 10 mm <sup>2</sup> PUSH IN	Standard
for 35 mm <sup>2</sup> Schraube	Standard
<b>Identification systems</b>	
For detailed information on other accessories and application in the online catalogue	

Type	Rated current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	<b>1985410000</b>
ZQV 1.5N/10	17.5 A	20	<b>1985580000</b>
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
ZQV 4N/2	32 A	60	<b>1527930000</b>
ZQV 4N/10	32 A	20	<b>1528090000</b>
ZQV 6N/2	41 A	60	<b>1985740000</b>
ZQV 6N/10	41 A	20	<b>1985780000</b>
AEB 35 SCL/1 VO		50	<b>2661280000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIS 0.6X3.5X100		1	<b>2749810000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
DEK 8/5 MM WS		800	<b>2007150000</b>
WS-A 8/16 MM WS		200	<b>2619910000</b>

Type	Rated current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	<b>1985410000</b>
ZQV 1.5N/10	17.5 A	20	<b>1985580000</b>
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
ZQV 4N/2	32 A	60	<b>1527930000</b>
ZQV 4N/10	32 A	20	<b>1528090000</b>
ZQV 6N/2	41 A	60	<b>1985740000</b>
ZQV 6N/10	41 A	20	<b>1985780000</b>
AEB 35 SCL/1 VO		50	<b>2661280000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIS 0.6X3.5X100		1	<b>2749810000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
SDIS 1.0X5.5X125		1	<b>2749850000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
DEK 8/5 MM WS		800	<b>2007150000</b>
WS-A 8/16 MM WS		200	<b>2619910000</b>

### AWPD potential distribution terminal block

The potential distribution terminal block AWPD 35 can be fed by wires of crosssection 1.5 – 35 mm<sup>2</sup>. Over standard cross-connections the potential is distributed over any number of terminals blocks of smaller crosssection. Some variants for potential distribution during feed-in are indicated in the table below, including the cross-connection which can be used and the maximum current allowed.



### Integrated into separation plate



#### Maximum current flow $I_{max}$ only with AWPD 35 4X10

Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right
AWPD 35 4X10	ZQV 6N	35 mm <sup>2</sup>	82 A

#### Maximum current flow $I_{max}$ only with AWPD 35 4X6/6X2.5

Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right
AWPD 35 4X6/6X2.5	ZQV 6N	35 mm <sup>2</sup>	82 A

#### Maximum current flow $I_{max}$ only with AWPD 35 4X10

Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right	Feed-in centred
AWPD 35 4X10	ZQV 6N	35 mm <sup>2</sup>	41 A	82 A

#### Maximum current flow $I_{max}$ only with AWPD 35 4X6/6X2.5

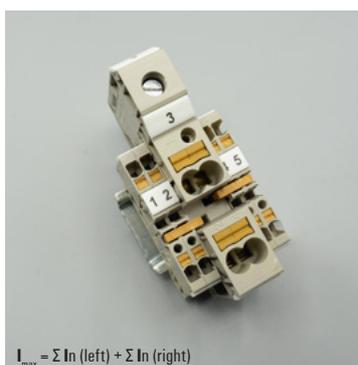
Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right	Feed-in centred
AWPD 35 4X6/6X2.5	ZQV 6N	35 mm <sup>2</sup>	41 A	82 A

#### Maximum current flow $I_{max}$ only with AWPD 35 4X6/6X2.5

Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right	Feed-in centred
A2C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A3C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A4C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A2C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A3C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A4C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A2C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A3C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A4C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A2C 6	ZQV 6N	35 mm <sup>2</sup>	76 A	82 A
A3C 6	ZQV 6N	35 mm <sup>2</sup>	76 A	82 A

#### Maximum current flow $I_{max}$ only with AWPD 35 4X10

Output terminal	Cross-connection	Wire cross-section Feed-in	Feed-in left or right	Feed-in centred
A2C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A3C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A4C 1.5	ZQV 1.5N	35 mm <sup>2</sup>	48 A	72 A
A2C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A3C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A4C 2.5	ZQV 2.5N	35 mm <sup>2</sup>	68 A	76 A
A2C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A3C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A4C 4	ZQV 4N	35 mm <sup>2</sup>	76 A	76 A
A2C 6	ZQV 6N	35 mm <sup>2</sup>	76 A	82 A
A3C 6	ZQV 6N	35 mm <sup>2</sup>	76 A	82 A



**Power distribution / Power feed-in**  
**Screw connection**

**Conductor connection data WPD**

Type	Input side											
	input cross section	Copper					Aluminum					
		solid	stranded	Finely stranded with wire end ferrule	flat band	Tightening Torque	solid	stranded	flexible with ferrule	sector shape	Tightening Torque	
WPD 130/230/330		35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>	35 mm <sup>2</sup>		10 Nm	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>		35-50 mm <sup>2</sup>	14 Nm	
		16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>		8 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			12 Nm	
		2.5-10 mm <sup>2</sup>	2.5-10 mm <sup>2</sup>	2.5-10 mm <sup>2</sup>		6 Nm	16mm <sup>2</sup>	16 mm <sup>2</sup>		16 - 25 mm <sup>2</sup>	10 Nm	
WPD 131/231		35-95 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-70 mm <sup>2</sup>		19 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>		16-95 mm <sup>2</sup>	22.6 Nm	
		10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>		14 Nm						
WPD 132/232					10 x 15.5 x 8 mm	30.9 Nm	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>		95-185 mm <sup>2</sup>	30.9 Nm	
		95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-150 mm <sup>2</sup>		25 Nm						
				25-70 mm <sup>2</sup>		20 Nm						
WPD 133/233					10 x 20 x 1mm	65 Nm	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>		150-300 mm <sup>2</sup>	65 Nm	
		150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>	150-240 mm <sup>2</sup>		45 Nm						
				35-95 mm <sup>2</sup>		30 Nm						
WPD x01	2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>		3.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>			4 Nm	
	2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			4 Nm	
WPD x02		4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm	
	2 x 35 mm <sup>2</sup>						25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm	
							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm	
	2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-16 mm <sup>2</sup>		3.5 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm	
WPD x03							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm	
	2 x 70 mm <sup>2</sup>		10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>	10 Nm	17mm <sup>2</sup>	17mm <sup>2</sup>			18 Nm	
								50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm
								35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm
								25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm
	2 x 50 mm <sup>2</sup>							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm
			6-50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	4-35 mm <sup>2</sup>	6 Nm		50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm
								35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm
							25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm	
WPD x04	1 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>		2.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm	
	1 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm	
WPD x05	1x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	25-35 mm <sup>2</sup>	25-35 mm <sup>2</sup>	25mm <sup>2</sup>	25-35 mm <sup>2</sup>	11.3 Nm	
	1 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm	
WPD x06	1 x 70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>		10 Nm	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-50 mm <sup>2</sup>	10-70 mm <sup>2</sup>	13.6 Nm	
	15.5 x 5 mm				15.5 x 5 mm	2 Nm						
WPD x07	1 x 95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	10-70 mm <sup>2</sup>		14 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-70 mm <sup>2</sup>	16-95 mm <sup>2</sup>	22.6 Nm	
	2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm	
WPD x08	1 x 120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	25-95 mm <sup>2</sup>		19Nm	35-120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-120 mm <sup>2</sup>	22.6 Nm	
	24 x 10 mm				24 x 10 mm	3 Nm						
WPD x09	1x 185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	50-150 mm <sup>2</sup>		19 Nm	70-185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	70-150 mm <sup>2</sup>	70-185 mm <sup>2</sup>	22.6 Nm	
	24 x 10 mm				24 x 10 mm	3 Nm						
WPD 111	1 x 95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	10-70 mm <sup>2</sup>		14 Nm						
WPD 113	1 x 185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	70-150 mm <sup>2</sup>		25 Nm						
	1 x 150 mm <sup>2</sup>	70-150 mm <sup>2</sup>	70-150 mm <sup>2</sup>	50-120 mm <sup>2</sup>		25 Nm						

Output side										Auxiliary connection			
output cross section	Copper				Aluminum					solid	stranded	Finely stranded with wire end ferrule	Tightening Torque
	solid	stranded	Finely stranded with wire end ferrule	Tightening Torque	solid	stranded	Finely stranded with wire end ferrule	sector shape	Tightening Torque				
	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>	35 mm <sup>2</sup>	10 Nm	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>		35-50 mm <sup>2</sup>	14 Nm				
	16 - 25 mm <sup>2</sup>	16 - 25 mm <sup>2</sup>	16 - 25 mm <sup>2</sup>	8 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			12 Nm				
	6 - 10 mm <sup>2</sup>	6 - 10 mm <sup>2</sup>	4 - 10 mm <sup>2</sup>	6 Nm	16mm <sup>2</sup>	16 mm <sup>2</sup>		16 - 25 mm <sup>2</sup>	10 Nm				
	35-95 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-70 mm <sup>2</sup>	19 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>		16-95 mm <sup>2</sup>	22.6 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	14 Nm									
	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-150 mm <sup>2</sup>	25 Nm	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>		95-185 mm <sup>2</sup>	30.9 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
			25-70 mm <sup>2</sup>	20 Nm									
	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>	150-240 mm <sup>2</sup>	45 Nm	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>		150-300 mm <sup>2</sup>	65 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
			35-95 mm <sup>2</sup>	30 Nm									
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	3.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>			4 Nm				
2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2.5 Nm	2.5 Nm	25 mm <sup>2</sup>			4 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	3.5 Nm	35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-16 mm <sup>2</sup>	3.5 Nm	16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>	10 Nm	17mm <sup>2</sup>	17mm <sup>2</sup>			18 Nm				
					50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm				
					35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	4-35 mm <sup>2</sup>	6 Nm	50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm				
					35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
					16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm				
2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
8 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16 mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm				
4 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	5.1 Nm				
3 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	5.1 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm				
4 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	16 mm <sup>2</sup>	16 mm <sup>2</sup>		16 mm <sup>2</sup>	5.1 Nm				
3 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16 mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm				
4 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	6 Nm					4 Nm				
8 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	6 Nm									

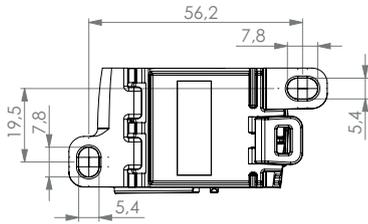
**Conductor connection data WPD**

Type	Input side											
	input cross section	Copper					Aluminum					
		solid	stranded	Finely stranded with wire end ferrule	flat band	Tightening Torque	solid	stranded	flexible with ferrule	sector shape	Tightening Torque	
WPD 130/230/330		35-50 mm <sup>2</sup>	3-50 mm <sup>2</sup>	35 mm <sup>2</sup>		10 Nm	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>		35-50 mm <sup>2</sup>	14 Nm	
		16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>		8 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			12 Nm	
		6-10 mm <sup>2</sup>	6-10 mm <sup>2</sup>	4-10 mm <sup>2</sup>		6 Nm	16mm <sup>2</sup>	16 mm <sup>2</sup>		16 - 25 mm <sup>2</sup>	10 Nm	
WPD 131/231		35-95 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-70 mm <sup>2</sup>		19 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>		16-95 mm <sup>2</sup>	22.6 Nm	
		10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>		14 Nm						
WPD 132/232					10 x 15.5 x 8 mm	30.9 Nm	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>		95-185 mm <sup>2</sup>	30.9 Nm	
		95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-150 mm <sup>2</sup>		25 Nm						
				25-70 mm <sup>2</sup>		20 Nm						
WPD 133/233					10 x 20 x 1mm	65 Nm	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>		150-300 mm <sup>2</sup>	65 Nm	
		150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>	150-240 mm <sup>2</sup>		45 Nm						
				35-95 mm <sup>2</sup>		30 Nm						
WPD x01	2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>		3.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>			4 Nm	
	2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			4 Nm	
WPD x02		4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm	
	2 x 35 mm <sup>2</sup>						25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm	
							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm	
	2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-16 mm <sup>2</sup>		3.5 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm	
WPD x03							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm	
	2 x 70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>		10 Nm	17mm <sup>2</sup>	17mm <sup>2</sup>			18 Nm	
								50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm
								35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm
								25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm
	2 x 50 mm <sup>2</sup>							16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm
		6-50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	4-35 mm <sup>2</sup>		6 Nm	50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm	
							35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm	
WPD x04	1 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>		2.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm	
	1 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm	
WPD x05	1x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	25-35 mm <sup>2</sup>	25-35 mm <sup>2</sup>	25mm <sup>2</sup>	25-35 mm <sup>2</sup>	11.3 Nm	
	1 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>		2.5 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm	
WPD x06	1 x 70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>		10 Nm	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-50 mm <sup>2</sup>	10-70 mm <sup>2</sup>	13.6 Nm	
	15.5 x 5 mm				15.5 x 5 mm	2 Nm						
WPD x07	1 x 95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	10-70 mm <sup>2</sup>		14 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-70 mm <sup>2</sup>	16-95 mm <sup>2</sup>	22.6 Nm	
	2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>		3.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm	
WPD x08	1 x 120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	25-95 mm <sup>2</sup>		19Nm	35-120 mm <sup>2</sup>	35-120 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-120 mm <sup>2</sup>	22.6 Nm	
	24 x 10 mm				24 x 10 mm	3 Nm						
WPD x09	1x 185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	50-150 mm <sup>2</sup>		19 Nm	70-185 mm <sup>2</sup>	70-185 mm <sup>2</sup>	70-150 mm <sup>2</sup>	70-185 mm <sup>2</sup>	22.6 Nm	
	24 x 10 mm				24 x 10 mm	3 Nm						
WPD 111	1 x 95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>	10-70 mm <sup>2</sup>		14 Nm						
WPD 113	1 x 185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	70-150 mm <sup>2</sup>		25 Nm						
	1 x 150 mm <sup>2</sup>	70-150 mm <sup>2</sup>	70-150 mm <sup>2</sup>	50-120 mm <sup>2</sup>		25 Nm						

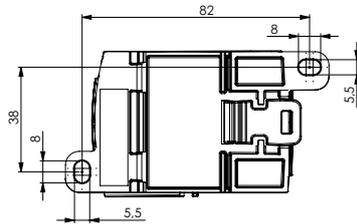
Output side										Auxiliary connection			
output cross section	Copper				Aluminum					solid	stranded	Finely stranded with wire end ferrule	Tightening Torque
	solid	stranded	Finely stranded with wire end ferrule	Tightening Torque	solid	stranded	Finely stranded with wire end ferrule	sector shape	Tightening Torque				
	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>	35 mm <sup>2</sup>	10 Nm	35-50 mm <sup>2</sup>	35-50 mm <sup>2</sup>		35-50 mm <sup>2</sup>	14 Nm				
	16 - 25 mm <sup>2</sup>	16 - 25 mm <sup>2</sup>	16 - 25 mm <sup>2</sup>	8 Nm	25 mm <sup>2</sup>	25 mm <sup>2</sup>			12 Nm				
	6 - 10 mm <sup>2</sup>	6 - 10 mm <sup>2</sup>	4 - 10 mm <sup>2</sup>	6 Nm	16mm <sup>2</sup>	16 mm <sup>2</sup>		16 - 25 mm <sup>2</sup>	10 Nm				
	35-95 mm <sup>2</sup>	35-95 mm <sup>2</sup>	35-70 mm <sup>2</sup>	19 Nm	16-95 mm <sup>2</sup>	16-95 mm <sup>2</sup>		16-95 mm <sup>2</sup>	22.6 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	10-25 mm <sup>2</sup>	14 Nm									
	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>	95-150 mm <sup>2</sup>	25 Nm	95-185 mm <sup>2</sup>	95-185 mm <sup>2</sup>		95-185 mm <sup>2</sup>	30.9 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
			25-70 mm <sup>2</sup>	20 Nm									
	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>	150-240 mm <sup>2</sup>	45 Nm	150-300 mm <sup>2</sup>	150-300 mm <sup>2</sup>		150-300 mm <sup>2</sup>	65 Nm	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-6 mm <sup>2</sup>	1.2 Nm
			35-95 mm <sup>2</sup>	30 Nm									
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	3.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>			4 Nm				
2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2.5 Nm	2.5 Nm	25 mm <sup>2</sup>			4 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	3.5 Nm	35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-16 mm <sup>2</sup>	3.5 Nm	16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	10-70 mm <sup>2</sup>	6-50 mm <sup>2</sup>	10 Nm	17mm <sup>2</sup>	17mm <sup>2</sup>			18 Nm				
					50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm				
					35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
2 x 50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	6-50 mm <sup>2</sup>	4-35 mm <sup>2</sup>	6 Nm	50 mm <sup>2</sup>	50 mm <sup>2</sup>			10 Nm				
					35 mm <sup>2</sup>	35 mm <sup>2</sup>			8 Nm				
					25 mm <sup>2</sup>	25 mm <sup>2</sup>			6 Nm				
					16 mm <sup>2</sup>	16 mm <sup>2</sup>			4 Nm				
2 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
2 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	10-16 mm <sup>2</sup>	10-16 mm <sup>2</sup>	10 mm <sup>2</sup>	10-16 mm <sup>2</sup>	5.1 Nm				
3 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	10 mm <sup>2</sup>	10 mm <sup>2</sup>		10 mm <sup>2</sup>	5.1 Nm				
8 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16 mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm				
4 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	5.1 Nm				
3 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	5.1 Nm				
2 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5 Nm	16-35 mm <sup>2</sup>	16-35 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16-35 mm <sup>2</sup>	11.3 Nm				
4 x 16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	1.5-10 mm <sup>2</sup>	2 Nm	16 mm <sup>2</sup>	16 mm <sup>2</sup>		16 mm <sup>2</sup>	5.1 Nm				
3 x 25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	1.5-16 mm <sup>2</sup>	2 Nm	16-25 mm <sup>2</sup>	16-25 mm <sup>2</sup>	16 mm <sup>2</sup>	16-25 mm <sup>2</sup>	5.1 Nm				
4 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	6 Nm					4 Nm				
8 x 35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	4-35 mm <sup>2</sup>	2.5-25 mm <sup>2</sup>	6 Nm									

Mounting

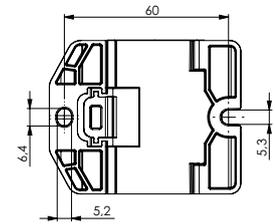
WPD 104



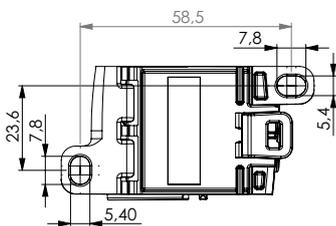
WPD 109



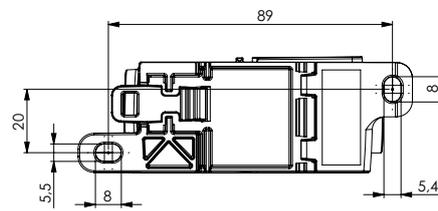
WPD 330



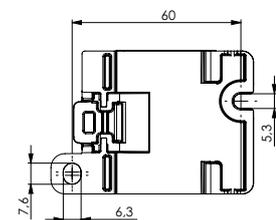
WPD 105



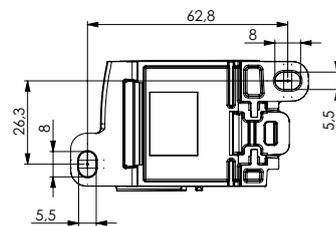
WPD 111



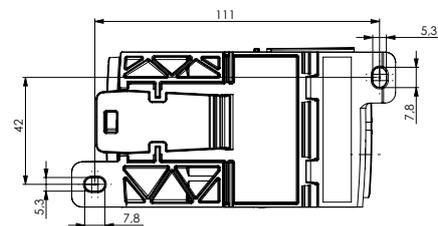
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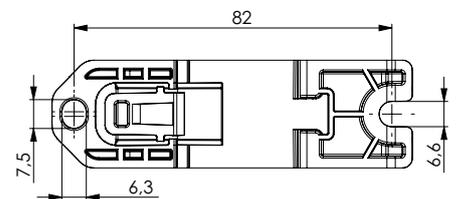
WPD 106



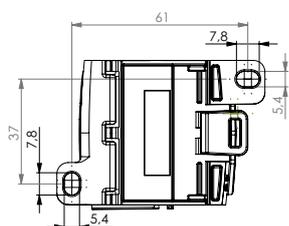
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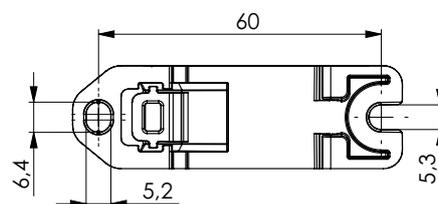
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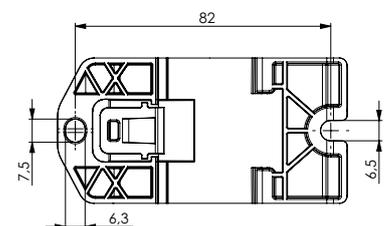
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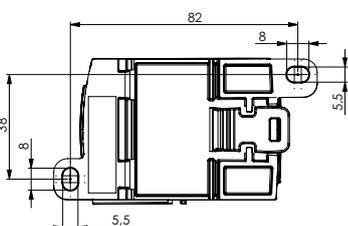
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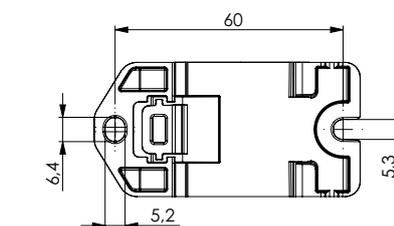
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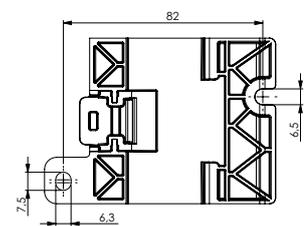
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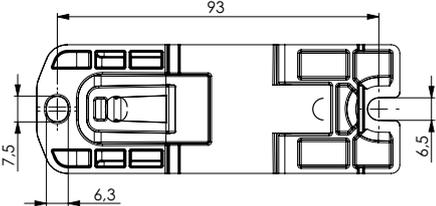
WPD 230



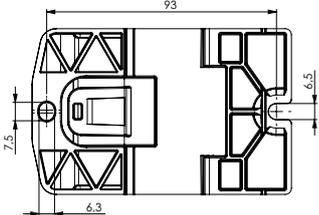
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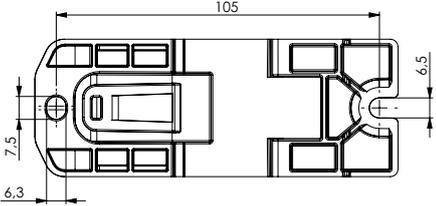
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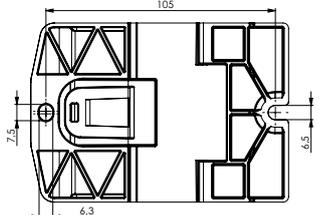
**WPD 232**



**WPD 133**



**WPD 233**



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