

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)

Klippon TB Multi Hinge, Klippon TB Quarter Lock, Klippon TB Fixing Screw

Issued to

Weidmüller Interface GmbH & Co. KG
Detmold, Germany

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Degree of protection IP66/IP67

Vibration class A

This Certificate is valid until **2025-11-25**.

Issued at **Hamburg** on **2020-11-26**

for **DNV GL**

DNV GL local station: **Hamburg – CMC North/East**

Approval Engineer: **Harald Amberger**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Type Klippon TB Multi Hinge (Stainless steel enclosures for use in areas exposed to explosion hazards)

Size	Height 150 – 1250mm Width 150 – 1000mm Depth 80 - 300 mm
Material	Stainless Steel1.4404 (1.4301), Mild Steel (1.0330)
Material thickness	1,5 mm , gland plates min 3mm
Finish	Stainless Steel: electrochemical polish, nature with finish
Gasket	Silicon
Ingress protection	IP 66/67 as per IEC 60529
Temperature	-60°C to + 135°C (IP 66) -60°C to + 105°C (IP 67)
Type of Ex protection	Ex e, Ex tb as per certificate IECEx IBE 14.0004U

Type Klippon TB Quarter Lock (Stainless steel enclosures for use in areas exposed to explosion hazards)

Size	Height 150 – 980mm Width 150 – 740mm Depth 80 - 300 mm
Material	Stainless Steel1.4404 (1.4301), Mild Steel (1.0330)
Material thickness	1,5 mm , gland plates min 3mm
Finish	Stainless Steel: electrochemical polish, nature with finish
Gasket	Silicon
Ingress protection	IP 66 as per IEC 60529
Temperature	-60°C to + 135°C (IP 66)
Type of Ex protection	Ex e, Ex tb as per certificate IECEx IBE 14.0004U

Type Klippon TB Fixing Screw (Stainless steel enclosures for use in areas exposed to explosion hazards)

Size	Height 150 – 1500mm Width 150 – 1000mm Depth 80 - 300 mm
Material	Stainless Steel1.4404 (1.4301), Mild Steel (1.0330)
Material thickness	1,5 mm , gland plates min 3mm
Finish	Stainless Steel: electrochemical polish, nature with finish
Gasket	Silicon
Ingress protection	IP 66/67 as per IEC 60529
Temperature	-60°C to + 135°C (IP 66) -60°C to + 105°C (IP 67)
Type of Ex protection	Ex e, Ex tb as per certificate IECEx IBE 14.0004U

Application/Limitation

Stainless steel enclosures for use in areas exposed to explosion hazards.
 Operating instruction of the manufacturer to be observed.

Type Approval documentation

Weidmüller test reports: LAB 14144 (2006-08-01), LAB 14145 (2006-08-02), LAB 16307 (2010-04-27),
LAB 16308 (2010-04-27), LAB 16383 (2010-06-18), LAB 16387 (2010-06-21)
AKUVIB test report no. 2010-03-0364-VU (2010-09-21)
IECEx Certificate of Conformity no. IBE 14.0004U (2014-05-05)
Assembly guideline – empty enclosures R.T.Nr. 20000560000/00/02.15
Drawing no. 4 59379 (2015-03-17)
Technical Information ATEX/IIECEx Certification Update for the Klippon TB range
Type Approval Assessment Report ((2016-03-16)

Tests carried out

Type tests in accordance with EN 62208, vibration test according to EN 60068-2-64, EN 60068-2-27,
IEC 60529:2001

Place of manufacture

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 16
32758 Detmold, GERMANY

Marking of product

The products to be marked with:

- manufacture name
- device name
- serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE