

Klippon TB FS (Terminal Box - Fixing Screw) KTB FS 453820 S4E2

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Stainless steel enclosures for use in areas exposed to explosion hazards

The Klippon® TB enclosure range provides excellent performance characteristics, even under the most difficult environmental conditions. In addition, it complies with the stricter requirements of potentially explosive atmospheres found in process or power generation industries.

The new Klippon® TB MH enclosure range offers further improvements to a product line that is already successfully leading the market.

The Klippon® TB FS enclosure range features the following advantages:

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Earthing stud in the cover and base of the enclosure
- Welded mounting feet

General ordering data

Type	KTB FS 453820 S4E2
Order No.	1196170000
Version	Klippon TB FS (Terminal Box - Fixing Screw), Empty enclosure, stainless steel enclosure, Height: 458 mm, Width: 382 mm, Depth: 200 mm, Gland plates: Bottom, top, Material: Stainless steel 1.4404 (316L), electropolished, Silver
GTIN (EAN)	4032248978786
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	382 mm	Width (inches)	15.039 inch
Height	458 mm	Height (inches)	18.031 inch
Depth	200 mm	Depth (inches)	7.874 inch
Mounting dimension - width	408 mm	Mounting dimension - height	305 mm
Net weight	9,747 g		

Cable glands, left

M12	55	M16	38
M20	24	M25	21
M32	11	M40	9
M50	4	M63	3
M75	3		

Cable glands, right

M12	55	M16	38
M20	24	M25	21
M32	11	M40	9
M50	4	M63	3
M75	3		

Cable glands, top/bottom

M12	50	M16	34
M20	23	M25	18
M32	10	M40	8
M50	4	M63	3
M75	2		

Certificate numbers enclosure

Certificate no. assembled enclosure (ATEX)	IBExU14ATEX1050	Certificate no. empty enclosure (ATEX)	IBExU14ATEX1028 U
Certificate no. assembled enclosure (IECEX)	IECEX IBE 14.0013	Certificate no. empty enclosure (IECEX)	IECEX IBE 14.0004U
Certificate no., assembled enclosure (EAC)	RU C-DE.ГБ08.B.01328	Certificate no., empty enclosure (EAC)	RU C-DE.ГБ08.B.00472
Certificate no. assembled enclosure (INMETRO)	IEEx 17.0021	Certificate no. empty enclosure (INMETRO)	IEEx 17.0020U
Certificate no. assembled enclosure (AEx)	E223792	Certificate no. empty enclosure (NEPSI)	GYJ14.1308U
Certificate no. assembled enclosure (NEPSI)	GYJ14.1309	Certificate no., assembled enclosure (KOSHA)	16-AV4BO-0245X
Certificate no. (cULus)	E256877	Certificate No. (CCOE)	CCOEP267536/2

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Technical data**General information**

AF size 1	10 mm	Access opening: height	428 mm
Access opening: width		Areas of use	Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore
	352 mm	Installation advice	Terminal rail / mounting plate
Gland plates	Bottom, top	Material thickness of cover	1.5 mm
Material thickness	1.5 mm	Max. payload	70 kg
Material thickness of flange	3 mm	Position PE bolts	Page C
Overall dimensions	480 x 433 x 208.5	Material	Stainless steel 1.4404 (316L)
Standards	EN 60079-0 : 2009, EN 60079-31 : 2009, EN 60079-7 : 2007, IEC 60079-0 : 2007, IEC 60079-31 : 2008, IEC 60079-7 : 2006, DIN EN 62208 - Empty enclosure standard	Surface finish	electropolished
Seal material	Silicone	Operating temperature, max.	135 °C
Operating temperature, min.	-60 °C	Protection degree	IP66, IP67, NEMA 3, NEMA 4x, NEMA 12
Impact resistance	7 J ATEX version, 10 J version standard	Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross- shaped feet)
Note: protection class	For use in the temperature range over 105°C, the IP protection is limited to IP 66.	Integral fixing	4, 6 or 9 stud bolts M6 inner (female) thread
Lid attachment	M6 hex-head slotted screws SW10		

Housing earth

Earth, enclosure, internal	Welded-on M6 stainless- steel earth stud in enclosure body and lid., Continuous M10 earth stud in body enclosure
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horizontal assembly

WDU 10 / ZDU 10	2x29	WDU 16 / ZDU 16	2x24
WDU 2,5 / ZDU 2,5 / IDU 2,5	4x58	WDU 35 / ZDU 35	1x18
WDU 4 / ZDU 4	3x48	WDU 6 / ZDU 6	3x36

vertical assembly

WDU 10 / ZDU 10	2x37	WDU 16 / ZDU 16	2x31
WDU 2,5 / ZDU 2,5 / IDU 2,5	3x73	WDU 35 / ZDU 35	1x23
WDU 4 / ZDU 4	2x62	WDU 6 / ZDU 6	2x46

Classifications

ETIM 6.0	EC002503	eClass 6.2	27-14-91-07
eClass 7.1	27-14-91-07	eClass 8.1	27-14-91-07
eClass 9.0	27-14-44-30	eClass 9.1	27-18-05-02

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Technical data**Product information**

Descriptive text ordering data	Colour variations may possibly occur in the case of painted housings.
Descriptive text technical data	<p>*For the enclosure versions with no, one or two gland plates, the horizontal distance between the mounting feet is reduced by 30 mm.</p> <p>The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.</p> <p>Order recommendations: TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000 TS 32 mounting rail (screw terminal) SAK 2.5 0279660000 TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000</p>

Approvals

Approvals

**Downloads**

Approval/Certificate/Document of Conformity	Attestation of Conformity EU Declaration of Conformity
Brochure/Catalogue	MB OVERV. PROCESS WD DE MB KLIPPON ENCL.TECN EN MB PROCESS EN FL WIND 2012 EN FL APPL PROCESS EN FL SHIPBUILDING 2016 EN FL RAILWAY 2014 EN PI KLIPPON TB MH QL EN
Engineering Data	EPLAN, WSCAD
User Documentation	MB KLIPPON ENCL.TECN DE Assembly guidelines - empty enclosures

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Drawings

Dimensioned drawing

