

KTB FS 987420 S4E2**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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Abbildung ähnlich

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 Klippon® TB FS 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

Version	Klippon TB FS (Terminal Box - Fixing Screw), Empty enclosure, stainless steel enclosure, Height: 980 mm, Width: 740 mm, Depth: 200 mm, Gland plates: Bottom, top, Material: Stainless steel 1.4404 (316L), electropolished, silver
Order No.	1196720000
Type	KTB FS 987420 S4E2
GTIN (EAN)	4032248979301
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Depth	200 mm	Depth (inches)	7.874 inch
Height	980 mm	Height (inches)	38.583 inch
Width	740 mm	Width (inches)	29.134 inch
Mounting dimension - height	625 mm	Mounting dimension - width	766 mm
Net weight	32,670 g		

Temperatures

Operating temperature	Note: room temperature (service)	Limited to IP66 protection when used in temperatures greater than 105 °C.
-60 °C...135 °C		

Cable glands, left

M12	126	M16	84
M20	54	M25	48
M32	26	M40	22
M50	10	M63	8
M75	6		

Cable glands, right

M12	126	M16	84
M20	54	M25	48
M32	26	M40	22
M50	10	M63	8
M75	6		

Cable glands, top/bottom

M12	96	M16	64
M20	42	M25	36
M32	20	M40	16
M50	6	M63	6
M75	4		

Certificate numbers enclosure

Approval conditions	ATEX, CCoE, DNV, IECEx, INMETRO, KC, NEPSI, CCC, UL AEx Class Div., UL AEx Class Zone, cULus	Attestation of Conformity No. (AoC)	
Certificate No. (ATEX)	KEMA10ATEX0048	Certificate No. (DNV)	TAE000013S
Certificate No. (IECEX)	IECEXKEM10.0017	Certificate No. Electronic Box (NEPSI)	2020322303003289
Certificate No. UL 508A	E223801	Certificate No. UL Haz.Loc.	E223792
Certificate No. UL Ord.Loc.	E243298	Certificate No. UL Terminal Box	E223792
Certificate no. (INMETRO)	IEX17.0021	Certificate no. (cULus)	E256877
Certificate no. Terminal Box (AEx)	E223792	Certificate no. Terminal Box (ATEX)	IBExU14ATEX1050
Certificate no. Terminal Box (IECEX)	IECEXIBE14.0013	Certificate no. Terminal Box (INMETRO)	LMP 21.0017
Certificate no. Terminal Box (KOSHA)	16-AV4BO-0245X	Certificate no. empty enclosure (ATEX)	IBExU14ATEX1028 U
Certificate no. empty enclosure (ECAS)	21-09-25241/ E21-09-053807	Certificate no. empty enclosure (IECEX)	IECEX IBE 14.0004U
Certificate no. empty enclosure (INMETRO)	LMP 21.0016U	Declaration of Conformity No. (DoC LVD)	DE PS261X 160412 001ISS03

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General information

AF size	10 mm	Access opening: height	928 mm
Access opening: width		Areas of use	Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore
	688 mm		
Dimension of box		Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet)
	925x1130x240		
Flange plate		Flange plate mounting	M6 hexagonal head screws 10 SW
	Yes		
Gland plates		Impact resistance	7 J ATEX version, 10 J version standard
	Bottom, top		
Integral fixing	4, 6 or 9 stud bolts M6 inner (female) thread	Lid attachment	M6 hex-head slotted screws SW10
Material	Stainless steel 1.4404 (316L)	Material thickness of cover	1.5 mm
Material thickness of enclosure	1.5 mm	Material thickness of flange	3 mm
Max. payload		Note: protection class	If used in temperature ranges above 105 °C, IP protection is limited to IP 66.
	290 kg		
Number of lid screws	10	Operating temperature, max.	135 °C
Operating temperature, min.	-60 °C	Overall dimensions	1002 x 791 x 208.5
Position PE bolts	Enclosure side C	Protection class (UL)	Type 3, Type 4X, Type 12
Protection degree	IP66, IP67	Seal material	Silicone
Standards	DIN EN 62208 - Empty enclosure standard, DIN EN 15085-2, EN 60079-0, EN 60079-7, EN 60079-31, IEC 60079-0, IEC 60079-7, IEC 60079-31	Surface finish	
			electropolished
Torque for lid screws	2.5 Nm		

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	6x64	WDU 16 / ZDU 16	5x54
WDU 2,5 / ZDU 2,5 / IDU 2,5	9x127	WDU 35 / ZDU 35	4x40
WDU 4 / ZDU 4	8x106	WDU 6 / ZDU 6	7x80

vertical assembly

WDU 10 / ZDU 10	4x88	WDU 16 / ZDU 16	4x74
WDU 2,5 / ZDU 2,5 / IDU 2,5	6x174	WDU 35 / ZDU 35	3x55
WDU 4 / ZDU 4	6x146	WDU 6 / ZDU 6	5x110

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Classifications

ETIM 6.0	EC002503	ETIM 7.0	EC002503
ETIM 8.0	EC002503	ETIM 9.0	EC002503
ECLASS 9.0	27-18-05-02	ECLASS 9.1	27-18-05-02
ECLASS 10.0	27-18-05-02	ECLASS 11.0	27-18-05-02
ECLASS 12.0	27-18-05-02	ECLASS 13.0	27-18-05-02
ECLASS 14.0	27-18-05-02		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	8d5fcdfe-c58e-44e1-a6b4-74d2bbccc9dd
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E256877

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Technical data

Downloads

Approval/Certificate/Document of Conformity	CCC 2020322303002358 KTB Assembly Enclosure CCC 2020322303002357 KTB Empty Enclosure CERTIFICADO - LMP 21.0016U_INVOLUCRO VAZIO KLIPPON TB FS... (KTB FS), TB MH... (KTB MH), TB QL... (KTB QL) (Rev.02) Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS06 UKCA Attestation of Conformity - Klippon TB Empty Enclosures - AoC UKCA DE PS261X 220623 000ISS00 IBEXU14ATEX1028U IBEXU14ATEX1050 IECEXIBE14.0004U IECEXIBE14.0013 TAE000013S IECEXPTB11.0071 PTB11ATEX2019 16-AV4BO-245X P4610581_1 24-01-100099/E24-01-102546/NB10 CERTIFICADO LMP 21.0017 KLIPPON TB EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS03 UKCA Declaration of Conformity - Klippon TB Empty Enclosures - UKCA DE PS261X 220623 001ISS00
Engineering Data	CAD data – STEP
Tender specification	Klippon TB FS 987420 S4E2_1196720000_DE Klippon TB FS 987420 S4E2_1196720000_EN Klippon TB FS 987420 S4E2_1196720000_NL
User Documentation	Assembly guidelines - empty enclosures
Catalogues	Catalogues in PDF-format
Brochures	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

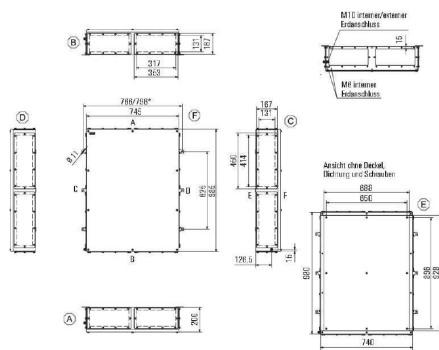
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Drawings

Dimensioned drawing



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Accessories

Stainless steel 1.4404 (316L)



Integrate, expand and customise: The ideal expansion for every application

The consistent structure of accessories for the new Klippon® TB enclosure range means that you can easily adapt the enclosure to the specific requirements of each application.

Rain Covers

The rain cover provides an ideal, additional level of protection for the enclosure if it is installed in unusual climatic zones with, for instance, very heavy rainfall or extreme levels of direct sunlight.

General ordering data

Type	KTB RNHD XX7420 S4E R	Version
Order No.	1314340000	Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width:
GTIN (EAN)	4050118117615	745 , Depth: 211.2 mm, Material: Stainless steel 1.4404 (316L),
Qty.	1 pc(s).	electropolished, silver

Gland plates made out of stainless steel - 6 mm



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Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

Type	KTB GP XX7420 AB S4 6MM	Version
Order No.	1256750000	Klippon TB (Terminal Box), flange plate, straight, Height: 353 mm,
GTIN (EAN)	4050118094053	Width: 167 mm, Depth: 6 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

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Accessories

Gland plates without earthing studs

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Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

Type	KTB GP XX7420 AB S4 3MM	Version
Order No.	1281310000	Klippon TB (Terminal Box), flange plate, straight, Height: 353 mm,
GTIN (EAN)	4050118072037	Width: 167 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

Gland plates with earthing studs

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Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

Type	KTB GP 987420 AB S4 PE	Version
Order No.	2024560000	Klippon TB (Terminal Box), flange plate, Height: 353 mm, Width: 167
GTIN (EAN)	4050118404357	mm, Depth: 3 mm, Gland plates: top, Bottom, Material: Stainless steel
Qty.	1 pc(s).	1.4404, electropolished, silver

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Accessories

Document holders



Integrate, expand and customise - the perfect supplement to every application

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

Document holders

Document holders for the proper storage of documents in the enclosure

General ordering data

Type	DOHA KTB A6 S2 R	Version
Order No.	1252780000	Klippon TB (Terminal Box), Document holders, Riveted, Height: 110
GTIN (EAN)	4050118045512	mm, Width: 130 mm, Depth: 20 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver
Type	DOHA KTB A5 S2 R	Version
Order No.	1252750000	Klippon TB (Terminal Box), Document holders, Riveted, Height: 150
GTIN (EAN)	4050118045390	mm, Width: 180 mm, Depth: 20 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver
Type	DOHA KTB A4 S2 R	Version
Order No.	1252730000	Klippon TB (Terminal Box), Document holders, Riveted, Height: 200
GTIN (EAN)	4050118045383	mm, Width: 240 mm, Depth: 20 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver

Earthing stud



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Earthing bolt

Earthing bolts to exchange as a complete component in two versions – brass and stainless steel.

General ordering data

Type	PEBZ M10 KTB S4 SET	Version
Order No.	1192690000	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height:
GTIN (EAN)	4032248974658	21 mm, Width: 21 mm, Depth: 48.7 mm, Material: Stainless steel
Qty.	1 pc(s).	1.4404, untreated, silver
Type	PEBZ M10 KTB BR SET	Version
Order No.	1192680000	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21
GTIN (EAN)	4032248974641	mm, Width: 21 mm, Depth: 48.7 mm, Material: Brass, untreated, silver
Qty.	1 pc(s).	

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Accessories

Grounding strap

The fully structured range of system accessories for the new Klippon® TB enclosure series allows you to easily adapt the enclosures to meet the specific requirements of every application. The following options are available:

- Closure Elements
- Document holders
- Earthing stud
- Gland plates
- Installation material
- Mounting plates
- Rain hoods
- Spacer
- Terminal rails
- Type label holder

General ordering data

Type	PECD WIRE 6/200/D6 SET	Version
Order No.	2475490000	Klippon TB (Terminal Box), Grounding strap, Sscrewed, Material: Steel,
GTIN (EAN)	4050118487206	Green/yellow
Qty.	1 pc(s).	

Installation material



Integrate, expand and customise - the perfect supplement to every application

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Mounting hardware kits

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

The **label fastening set – SD** is required to install a plastic (Trafolyte) ID or type label. With the aid of this set can you mount the ID or type label directly on the enclosure cover. The label fastening set has been specially developed for this purpose. Only by using this fastening set can you ensure that there will be no leaks into the enclosure or damage to the label.

The **universal fastening set – TPSD** has been developed to enable secure and quick installation of type label holders, rain covers or document holders, for example. By using this fastening set, the risk of leaks can be minimised, if not avoided.

General ordering data

Type	SD FIXING SET	Version
Order No.	1285200000	Klippon TB (Terminal Box), Identification plate fixing set, Height: 12
GTIN (EAN)	4050118075472	mm, Width: 12 mm, Depth: 16.4 mm, Material: Stainless steel, rust-
Qty.	1 pc(s).	proof, untreated, silver

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Accessories

Type	TPSD FIXING SET KTB	Version
Order No.	1252190000	Klippon TB (Terminal Box), Type plate fixings set, Material: Stainless
GTIN (EAN)	4050118043969	steel, rust-proof, untreated, silver
Qty.	20 pc(s).	
Type	FKSC M6X8 D9/SW3	Version
Order No.	0642600000	Klippon TB (Terminal Box), Mounting screw, Material: Steel
GTIN (EAN)	4008190058258	
Qty.	50 pc(s).	

Type label holder



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Nameplate holders

There are a variety of designed label holders available for prominent display as required and for additional nameplates as needed.

General ordering data

Type	TPSDHA KTB 100X25 S2 2R	Version
Order No.	1257640000	Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height:
GTIN (EAN)	4050118070354	25 mm, Width: 141 mm, Depth: 16.5 mm, Material: Stainless steel
Qty.	1 pc(s).	1.4301, Mirror polished, silver
Type	TPSDHA KTB 70X70M3 S2 R	Version
Order No.	1279320000	Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: 70
GTIN (EAN)	4050118070101	mm, Width: 70 mm, Depth: 20 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver
Type	TPSDHA KTB 130X50 S2 R	Version
Order No.	1283450000	Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: 50
GTIN (EAN)	4050118073621	mm, Width: 171 , Depth: 16.5 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver

Depth 7.5 mm



General ordering data

Type	TS35X7.5 ST KTB9874 VER	Version
Order No.	8000006719	Rail, TS 35, TS 35 x 7.5, Width: 912 mm, without slot, Steel,
GTIN (EAN)	4050118652970	galvanized, chromium-plated
Qty.	20 pc(s).	

Creation date October 4, 2024 5:05:35 AM CEST

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Accessories

Type	TS35X7.5 ST KTB9874 HOR	Version
Order No.	8000006730	Rail, TS 35, TS 35 x 7.5, Width: 666 mm, without slot, Steel,
GTIN (EAN)	4050118653038	galvanized, chromium-plated
Qty.	20 pc(s).	

Mounting plates



Mounting plates, with and without hole patterns, for longitudinal and transverse mounting of DIN mounting rails or components directly onto the mounting plate.

General ordering data

Type	GFSC M5X10 TX20 SET	Version
Order No.	1274150000	Klippon EB (Essential Box), Mounting screw, Height: 13.3 mm, Width:
GTIN (EAN)	4050118063820	8.5 mm, Depth: 8.5 mm, Material: Steel, galvanized, galvanic zinc
Qty.	1 pc(s).	plated and passivated, silver

Depth 15 mm



General ordering data

Type	TS35X15 ST KTB9874 HOR-C	Version
Order No.	8000073137	Rail, TS 35, TS 35 x 15, Width: 666 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340935	zinc plated and passivated
Qty.	20 pc(s).	
Type	TS35X15 ST KTB9874 VER-C	Version
Order No.	8000073139	Rail, TS 35, TS 35 x 15, Width: 912 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340959	zinc plated and passivated
Qty.	20 pc(s).	
Type	TS35X15 ST KTB9874 VER	Version
Order No.	8000073138	Rail, TS 35, TS 35 x 15, Width: 912 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340942	zinc plated and passivated
Qty.	20 pc(s).	

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Accessories

Type	TS35X15 ST KTB9874 HOR	Version
Order No.	8000073136	Rail, TS 35, TS 35 x 15, Width: 666 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340928	zinc plated and passivated
Qty.	20 pc(s).	

980 x 740mm



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Mounting plates

Mounting plates, with and without hole patterns, for longitudinal and transverse mounting of DIN mounting rails or components directly onto the mounting plate.

General ordering data

Type	KTB MOPL 9874 MSZN H	Version
Order No.	2022760000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height:
GTIN (EAN)	4050118403763	926 mm, Width: 680 mm, Depth: 12 mm, Material: Sheet steel,
Qty.	1 pc(s).	galvanized, silver
Type	KTB MOPL 9874 S2N	Version
Order No.	1193920000	Klippon TB (Terminal Box), Mounting plate, Height: 926 mm, Width:
GTIN (EAN)	4050118028539	680 mm, Depth: 12 mm, Material: Stainless steel 1.4301 (304),
Qty.	1 pc(s).	untreated, silver
Type	KTB MOPL 9874 S2N H	Version
Order No.	1257770000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 926
GTIN (EAN)	4050118049404	mm, Width: 680 mm, Depth: 12 mm, Material: Stainless steel 1.4301
Qty.	1 pc(s).	(304), untreated, silver
Type	KTB MOPL 9874 MSZN	Version
Order No.	1194050000	Klippon TB (Terminal Box), Mounting plate, Height: 926 mm, Width:
GTIN (EAN)	4050118028645	680 mm, Depth: 12 mm, Material: Sheet steel, galvanized, silver
Qty.	1 pc(s).	

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Rain Covers

The rain cover provides an ideal, additional level of protection for the enclosure if it is installed in unusual climatic zones with, for instance, very heavy rainfall or extreme levels of direct sunlight.

General ordering data

Type	KTB RNHD 987420 R	Version
Order No.	1281580000	Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 745
GTIN (EAN)	4050118072303	mm, Depth: 211.2 mm, Material: Stainless steel 1.4301, Mirror
Qty.	1 pc(s).	polished, silver