KTB FS 453815 S4E4

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Similar to illustration



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: 458 mm, Width: 382 mm, Depth: 150 mm, Gland plates: Bottom, top, left, right, Material: Stainless steel 1.4404 (316L), electropolished, silver
Order No.	1196140000
Type	KTB FS 453815 S4E4
GTIN (EAN)	4032248978939
Qty.	1 pc(s).

KTB FS 453815 S4E4

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D-32758 Detmold
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Technical data

Dimensions and weights

Depth	150 mm	Depth (inches)	5.905 inch
Height	458 mm	Height (inches)	18.031 inch
Width	382 mm	Width (inches)	15.039 inch
Mounting dimension - height	305 mm	Mounting dimension - width	438 mm
Net weight	12,922 g		

Temperatures

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

Cable glands, left

M12	33	M16	19
M20	16	M25	7
M32	6	M40	5
M50	4	M63	0
M75	0		

Cable glands, right

M12	33	M16	19
M20	16	M25	7
M32	6	M40	5
M50	4	M63	0
M75	0		

Cable glands, top/bottom

M12	30	M16	17
M20	15	M25	6
M32	5	M40	4
M50	4	M63	0
M75	0		

Certificate numbers enclosure

Approval conditions	ATEX, CCoE, DNV, IECEX, INMETRO, KC, NEPSI, CCC, UL AEx Class Div., UL AEx Class Zone, cULus	Attestation of Conformatiy No. (AoC)	DE PS261X 160309 001ISS03
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)	IEX17.0020U	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 Conformatiy No. (DoC LVD)	DE PS261X 160412 001ISS02

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Technical data

General information

AF size	10 mm	Access opening: height	428 mm
Access opening: width	352 mm	Areas of use	Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore
Dimension of box	580x620x240	Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet)
Flange plate	Yes	Flange plate mounting	M6 hexagonal head screws 10 SW
Gland plates	Bottom, top, left, right	Impact resistance	7 J ATEX version, 10 J version standard
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	70 kg	Note: protection class	If used in temperature ranges above 105 °C, IP protection is limited to IP 66.
Number of lid screws	4	Operating temperature, max.	135 °C
Operating temperature, min.	-60 °C	Overall dimensions	480 x 463 x 158.5
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

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

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Technical data

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	8d5fcdfe-c58e-44e1-a6b4-74d2bbccc9dd

Approvals

Approvals



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 Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS06 IBEXU14ATEX1028U IBEXU14ATEX1050 IECEXIBE14.0004U IECEXIBE14.0013 TAE000013S GYJ14.1310X IECEXPTB11.0071 PTB11ATEX2019 16-AV4BO-245X P4610581_1 24-01-100099/E24-01-102546/NB10 LMP 21.0017 - CAIXA DE JUNÇÃO KLIPPON TB - KTB MH QL FS CERTIFICADO - LMP 21.0016U KLIPPON TB CERTIFICADO LMP 21.0017 KLIPPON TB EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS03
Engineering Data	CAD data – STEP
Tender specification	Klippon TB FS 453815 S4E4_1196140000_DE Klippon TB FS 453815 S4E4_1196140000_EN Klippon TB FS 453815 S4E4_1196140000_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

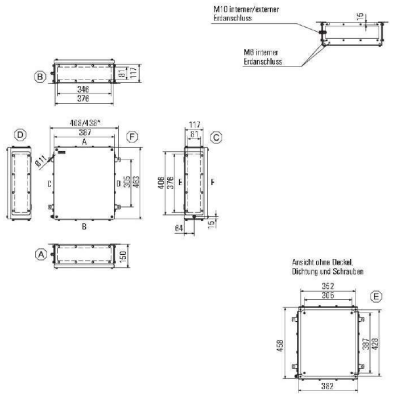
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Drawings

Dimensioned drawing



KTB FS 453815 S4E4

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Accessories

Depth 7.5 mm



General ordering data

Type	TS35X7.5 ST KTB4538 VER	Version
Order No.	8000006713	Rail, TS 35, TS 35 x 7.5, Width: 403 mm, without slot, Steel, galvanic
GTIN (EAN)	4050118652864	zinc plated and passivated
Qty.	20 pc(s).	
Type	TS35X7.5 ST KTB4538 HOR	Version
Order No.	8000006724	Rail, TS 35, TS 35 x 7.5, Width: 321 mm, without slot, Steel,
GTIN (EAN)	4050118652925	galvanized, chromium-plated
Qty.	20 pc(s).	

Type label holder



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.
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:
GTIN (EAN)	4050118073621	50 mm, Width: 171 mm, Depth: 16.5 mm, Material: Stainless steel
Qty.	1 pc(s).	1.4301, Mirror polished, silver

KTB FS 453815 S4E4

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Accessories

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 453815 AB S4 PE	Version
Order No.	2023490000	Klippon TB (Terminal Box), flange plate, straight, Height: 376 mm,
GTIN (EAN)	4050118404012	Width: 117 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver
Type	KTB GP 453815 CD S4 PE	Version
Order No.	2023500000	Klippon TB (Terminal Box), flange plate, straight, Height: 406 mm,
GTIN (EAN)	4050118404258	Width: 117 mm, Depth: 3 mm, Gland plates: left, right, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

Installation material



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.
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	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.	1 pc(s).	

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Accessories

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	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

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 453815 AB S4	Version
Order No.	1281070000	Klippon TB (Terminal Box), flange plate, straight, Height: 376 mm,
GTIN (EAN)	4050118071672	Width: 117 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

Type	KTB GP 453815 CD S4	Version
Order No.	1281080000	Klippon TB (Terminal Box), flange plate, straight, Height: 406 mm,
GTIN (EAN)	4050118071870	Width: 117 mm, Depth: 3 mm, Gland plates: left, right, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

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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, Ssrewed, Material: Steel,
GTIN (EAN)	4050118487206	Green/yellow
Qty.	1 pc(s).	

Stainless steel 1.4404 (316L)



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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 453815 S4E R	Version
Order No.	1314190000	Klippon TB (Terminal Box), Rain hood, Height: 53.4 mm, Width: 387
GTIN (EAN)	4050118117264	mm, Depth: 160.5 mm, Material: Stainless steel 1.4404 (316L),
Qty.	1 pc(s).	electropolished, silver

KTB FS 453815 S4E4

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Accessories

Depth 15 mm



General ordering data

Type	TS35X15 ST KTB4538 HOR	Version
Order No.	8000073117	Rail, TS 35, TS 35 x 15, Width: 321 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340720	zinc plated and passivated
Qty.	20 pc(s).	
Type	TS35X15 ST KTB4538 VER	Version
Order No.	8000073118	Rail, TS 35, TS 35 x 15, Width: 403 mm, without slot, Steel, galvanic
GTIN (EAN)	4064675340737	zinc plated and passivated
Qty.	20 pc(s).	

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 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).	
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

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Accessories

458 x 382mm



Integrate, expand and customise: The ideal expansion for every application
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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 4538 S2N	Version
Order No.	1193860000	Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width:
GTIN (EAN)	4050118028461	321 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304),
Qty.	1 pc(s).	untreated, silver
Type	KTB MOPL 4538 S2N H	Version
Order No.	1257700000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 403
GTIN (EAN)	4050118049411	mm, Width: 321 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301
Qty.	1 pc(s).	(304), untreated, silver
Type	KTB MOPL 4538 MSZN	Version
Order No.	1193990000	Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width:
GTIN (EAN)	4050118028591	321 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized, silver
Qty.	1 pc(s).	
Type	KTB MOPL 4538 MSZN H	Version
Order No.	2022590000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height:
GTIN (EAN)	4050118403657	403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Sheet steel,
Qty.	1 pc(s).	galvanized, 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 453815 CD S4 6MM	Version
Order No.	1256490000	Klippon TB (Terminal Box), flange plate, straight, Height: 406 mm,
GTIN (EAN)	4050118093872	Width: 117 mm, Depth: 6 mm, Gland plates: left, right, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver
Type	KTB GP 453815 AB S4 6MM	Version
Order No.	1256480000	Klippon TB (Terminal Box), flange plate, straight, Height: 376 mm,
GTIN (EAN)	4050118093865	Width: 117 mm, Depth: 6 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

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Accessories

Stainless steel 1.4301



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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 453815 R	Version
Order No.	1281450000	Klippon TB (Terminal Box), Rain hood, Height: 53.4 mm, Width: 387
GTIN (EAN)	4050118072143	mm, Depth: 160.5 mm, Material: Stainless steel 1.4301, Mirror
Qty.	1 pc(s).	polished, silver

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

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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 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 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