

KTB QL 453820 S4E2**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 specifically in the process or power generation industries. The Klippon® TB QL enclosure range offers further improvements to a product line that is already successfully leading the market.

The Klippon® TB QL enclosure series 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
- Quick-locking cover, comes with a slot as standard
- Improved temperature performance
- IP66 protection
- Earthing stud in the cover and base of the enclosure
- Welded mounting feet
- International approvals

General ordering data

Version	Klippon TB QL (Terminal Box - Quarter Lock), 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
Order No.	1200410000
Type	KTB QL 453820 S4E2
GTIN (EAN)	4032248983223
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Depth	200 mm	Depth (inches)	7.874 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	408 mm
Net weight	13,300 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	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

Approval conditions	ATEX, CCoE, DNV, IECEx, INMETRO, KC, NEPSI, CCC, UL AEx Class Div., UL AEx Class Zone, cULus	Attestation of Conformity No. (AoC)	DE PS261X 160309 001ISS03
Certificate No. (ATEX)	KEMA10ATEX0050	Certificate No. (CCOE)	P461058_1
Certificate No. (DNV)	TAE000013S	Certificate No. (IECEX)	IECEXKEM10.0015U
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)	E243298	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 001ISS02		

Creation date April 29, 2024 10:17:07 PM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Technical data
General information

AF size	10 mm	Access opening: height	405 mm
Access opening: width		Areas of use	Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore
	323 mm		
Dimension of box		Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet)
	580x620x290		
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	Quarter-turn fastener with slotted insert
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.
	70 kg		
Opening angle lid	130 °	Operating temperature, max.	135 °C
Operating temperature, min.	-60 °C	Overall dimensions	480 x 433 x 210
Position PE bolts	Enclosure side C	Protection class (UL)	Type 3, Type 4X, Type 12
Protection degree	IP66	Seal material	Silicone
Standards	DIN EN 62208 - Empty enclosure standard, DIN EN 61373 Class 1B**, 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

Housing earth

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

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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



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E243298

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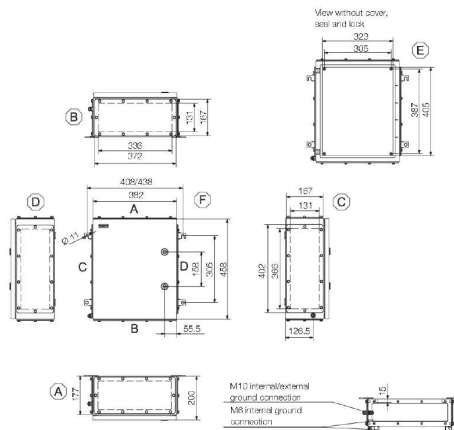
Approval/Certificate/Document of Conformity	CCC 2020322303002358 KTB Assembly Enclosure
	CCC 2020322303002357 KTB Empty Enclosure
	Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS06
	IBEXU14ATEX1028U
	IBEXU14ATEX1050
	IECEXIBE14.0004U
	IECEXIBE14.0013
	TAE000013S
	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
	DoM Railway applications - Fire protection on railway vehicles
Engineering Data	CAD data – STEP
Tender specification	Klippon TB QL 453820 S4E2_1200410000_DE
	Klippon TB QL 453820 S4E2_1200410000_EN
	Klippon TB QL 453820 S4E2_1200410000_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
	PI KLIPPON TB MH QL EN

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Drawings



KTB QL 453820 S4E2

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Accessories

Stainless steel 1.4301



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 453820 R	Version
Order No.	1281460000	Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 387
GTIN (EAN)	4050118072228	mm, Depth: 211.2 mm, Material: Stainless steel 1.4301, Mirror
Qty.	1 pc(s).	polished, silver

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 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 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 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

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www.weidmueller.com**Accessories****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 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).	

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Accessories

458 x 382mm



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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 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 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 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
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

Stainless steel 1.4404 (316L)



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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 453820 S4E R	Version
Order No.	1314200000	Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 387
GTIN (EAN)	4050118117523	mm, Depth: 211.2 mm, Material: Stainless steel 1.4404 (316L),
Qty.	1 pc(s).	electropolished, silver

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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 453820 AB S4 PE	Version
Order No.	2023510000	Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm,
GTIN (EAN)	4050118403831	Width: 167 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, 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 BR SET	Version
Order No.	1192680000	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21 mm, Width: 21 mm, Depth: 48.7 mm, Material: Brass, untreated, silver
GTIN (EAN)	4032248974641	
Qty.	1 pc(s).	
Type	PEBZ M10 KTB S4 SET	Version
Order No.	1192690000	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21 mm, Width: 21 mm, Depth: 48.7 mm, Material: Stainless steel
GTIN (EAN)	4032248974658	
Qty.	1 pc(s).	1.4404, untreated, silver

KTB QL 453820 S4E2

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Accessories

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 453820 AB S4 6MM	Version
Order No.	1256510000	Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm,
GTIN (EAN)	4050118093889	Width: 167 mm, Depth: 6 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

Closure elements



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

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Sealing systems

There are different closure systems available for the safe and orderly sealing of the enclosure. There are padlocks for the Klippon® TB MH enclosures and a variety of lock inserts for the Klippon® TB QL enclosures.

General ordering data

Type	KTB QLH S4 SLS	Version
Order No.	1191610000	Klippon TB (Terminal Box), Closure element, Material: Stainless steel
GTIN (EAN)	4050118137965	1.4404, untreated, silver
Qty.	50 pc(s).	
Type	KTB QLL S2 SLS	Version
Order No.	1191600000	Klippon TB (Terminal Box), Closure element, Material: Stainless steel
GTIN (EAN)	4050118137989	1.4301, untreated, silver
Qty.	10 pc(s).	
Type	KTB QLL S2 DB3	Version
Order No.	1191590000	Klippon TB (Terminal Box), Closure element, Material: Stainless steel
GTIN (EAN)	4050118134285	1.4301, untreated, silver
Qty.	50 pc(s).	

KTB QL 453820 S4E2

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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).	

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	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.	1 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).	

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).	

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 453820 AB S4	Version
Order No.	1281090000	Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm,
GTIN (EAN)	4050118072020	Width: 167 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

KTB QL 453820 S4E2**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****Document holders****Integrate, expand and customise - the perfect supplement to every application**

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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 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
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