

## Klippon TB FS (Terminal Box - Fixing Screw) KTB FS 453815 S4E3

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### Product image



Abbildung ähnlich

### 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 453815 S4E3
Order No.	<a href="#">1196130000</a>
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, left, right, Material: Stainless steel 1.4404 (316L), electropolished, silver
GTIN (EAN)	4032248979165
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	150 mm	Depth (inches)	5.905 inch
Mounting dimension - width	438 mm	Mounting dimension - height	305 mm
Net weight	12,000 g		

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**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**

Certificate no. assembled enclosure (ATEX)	IBExU14ATEX1050	Certificate no. empty enclosure (ATEX)	IBExU14ATEX1028 U
Certificate no. assembled enclosure (IECEX)	IECEXIBE14.0013	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, left, right	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	469 x 463 x 158.5	Torque for lid screws	2.5 Nm
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	Seal material	Silicone
Material	Stainless steel 1.4404 (316L)	Operating temperature, min.	-60 °C
Surface finish	electropolished	Impact resistance	7 J ATEX version, 10 J version standard
Operating temperature, max.	135 °C	Note: protection class	If used in temperature ranges above 105 °C, IP protection is limited to IP 66.
Protection degree	IP66, IP67	Lid attachment	M6 hex-head slotted screws SW10
Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross- shaped feet)		
Integral fixing	4, 6 or 9 stud bolts M6 inner (female) thread		

#### 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

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## Technical data

### Classifications

ETIM 6.0	EC002503	ETIM 7.0	EC002503
eClass 9.0	27-18-05-02	eClass 9.1	27-18-05-02
eClass 10.0	27-18-05-02		

### Product information

Product information Minimum order quantity ( 10 pieces)

### Approvals

Approvals



ROHS Conform

### Downloads

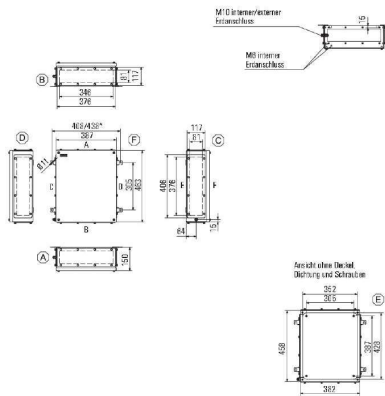
Approval/Certificate/Document of Conformity	<a href="#">Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS01</a> <a href="#">EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS01</a>
Brochure/Catalogue	<a href="#">MB OVERV. PROCESS WD DE</a> <a href="#">MB KLIPPON ENCL.TECN EN</a> <a href="#">MB PROCESS EN</a> <a href="#">FL WIND 2012 EN</a> <a href="#">FL APPL PROCESS EN</a> <a href="#">FL SHIPBUILDING 2016 EN</a> <a href="#">FL RAILWAY 2014 EN</a> <a href="#">PI KLIPPON TB MH QL EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
Tender specification	<a href="#">Klippon TB FS 453815 S4E3 1196130000_DE</a> <a href="#">Klippon TB FS 453815 S4E3 1196130000_EN</a> <a href="#">Klippon TB FS 453815 S4E3 1196130000_NL</a>
User Documentation	<a href="#">MB KLIPPON ENCL.TECN DE</a> <a href="#">Assembly guidelines - empty enclosures</a>

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**Drawings**

**Dimensioned drawing**



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# Accessories

## Earthing stud



### **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.

### **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.	<a href="#">1192690000</a>	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Material:
GTIN (EAN)	4032248974658	Stainless steel 1.4404, untreated, silver
Qty.	1 pc(s).	
Type	PEBZ M10 KTB BR SET	Version
Order No.	<a href="#">1192680000</a>	Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Material:
GTIN (EAN)	4032248974641	Brass, untreated, silver
Qty.	1 pc(s).	

## with earthing studs



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### **Flange plates**

Flange plates in two thicknesses, for easy replacement of pre-assembled flange plates on site.

### General ordering data

Type	KTB GP 453815 CD S4 PE	Version
Order No.	<a href="#">2023500000</a>	Klippon TB (Terminal Box), flange plate, Height: 406 mm, Width: 117
GTIN (EAN)	4050118404258	mm, Depth: 3 mm, Gland plates: left, right, electropolished, silver
Qty.	1 pc(s).	
Type	KTB GP 453815 AB S4 PE	Version
Order No.	<a href="#">2023490000</a>	Klippon TB (Terminal Box), flange plate, Height: 376 mm, Width: 117
GTIN (EAN)	4050118404012	mm, Depth: 3 mm, Gland plates: top, Bottom, electropolished, silver
Qty.	1 pc(s).	

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# Accessories

## 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 you can 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.	<a href="#">1285200000</a>	Klippon TB (Terminal Box), Identification plate fixing set, Material:
GTIN (EAN)	4050118075472	Stainless steel, rust-proof, untreated, silver
Qty.	1 pc(s).	
Type	TPSD FIXING SET KTB	Version
Order No.	<a href="#">1252190000</a>	Klippon TB (Terminal Box), Type plate fixings set, Material: Stainless
GTIN (EAN)	4050118043969	steel, rust-proof, untreated, silver
Qty.	1 pc(s).	

## Document holders



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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.	<a href="#">1252780000</a>	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

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## Accessories

Type	DOHA KTB A5 S2 W	Version
Order No.	<a href="#">1235380000</a>	Klippon TB (Terminal Box), Document holders, welded, Height: 150
GTIN (EAN)	4050118256826	mm, Width: 180 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.	<a href="#">1252750000</a>	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 W	Version
Order No.	<a href="#">1252760000</a>	Klippon TB (Terminal Box), Document holders, welded, Height: 110
GTIN (EAN)	4050118045130	mm, Width: 130 mm, Depth: 20 mm, Material: Stainless steel 1.4301,
Qty.	1 pc(s).	Mirror polished, silver

## Flange plates made out of stainless steel - 6 mm



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

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### Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembled flange plates on site.

## General ordering data

Type	KTB GP 453815 AB S4 6MM	Version
Order No.	<a href="#">1256480000</a>	Klippon TB (Terminal Box), flange plate, Height: 376 mm, Width: 117
GTIN (EAN)	4050118093865	mm, Depth: 6 mm, Gland plates: top, Bottom, Material: Stainless steel
Qty.	1 pc(s).	1.4404, electropolished, silver
Type	KTB GP 453815 CD S4 6MM	Version
Order No.	<a href="#">1256490000</a>	Klippon TB (Terminal Box), flange plate, Height: 406 mm, Width: 117
GTIN (EAN)	4050118093872	mm, Depth: 6 mm, Gland plates: left, right, Material: Stainless steel
Qty.	1 pc(s).	1.4404, electropolished, silver



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**Accessories****Mounting plates fastening**

For many years, the name Klippon® has stood for competence and quality in enclosures. The Klippon® EBi industrial enclosure series protects your components reliably if they are used in moderate environmental conditions and is designed for everyday applications. With the ever-increasing need for individual application solutions, the Klippon® EBi with its high degree of protection and impact resistance is ideally suited to your needs. Our standard product is the Klippon® EBi QL – with hinged door and double-bit key lock. A variant with mounting screws is also available, but is only manufactured on request and is subject to a minimum order quantity. DNV GL and cULus approvals are also available on request.

**General ordering data**

Type	GFSC M5X10 TX20 SET	Version
Order No.	<a href="#">1274150000</a>	Klippon EBi (Essential Box industrial), Mounting screw, silver
GTIN (EAN)	4050118063820	
Qty.	1 pc(s).	

**458 x 382mm****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.

**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.	<a href="#">1193860000</a>	Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width: 321 mm, Depth: 12 mm, Material: Stainless steel 1.4301 (304), untreated, silver
GTIN (EAN)	4050118028461	
Qty.	1 pc(s).	
Type	KTB MOPL 4538 S2N H	Version
Order No.	<a href="#">1257700000</a>	Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304), untreated, silver
GTIN (EAN)	4050118049411	
Qty.	1 pc(s).	
Type	KTB MOPL 4538 MSZN	Version
Order No.	<a href="#">1193990000</a>	Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width: 321 mm, Depth: 12 mm, Material: Sheet steel, galvanized, silver
GTIN (EAN)	4050118028591	
Qty.	1 pc(s).	

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## Accessories

Type	KTB MOPL 4538 MSZN H	Version
Order No.	<a href="#">2022590000</a>	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

### 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 453815 R	Version
Order No.	<a href="#">1281450000</a>	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

### TS 35



#### **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.

The following options are available:

- Document holders
- Flange plates
- Mounting plates
- Locking systems
- Type label holders
- Rain hoods
- Earthing studs

#### General ordering data

Type	TS35X7.5 ST KTB4538 HOR	Version
Order No.	<a href="#">8000006724</a>	Rail, TS 35, TS 35 x 7.5, Length: 321 mm, without slot, Steel,
GTIN (EAN)	4050118652925	galvanized, chromium-plated
Qty.	20 pc(s).	
Type	TS35X7.5 ST KTB4538 VER	Version
Order No.	<a href="#">8000006713</a>	Rail, TS 35, TS 35 x 7.5, Length: 403 mm, without slot, Steel,
GTIN (EAN)	4050118652864	galvanized, chromium-plated
Qty.	20 pc(s).	

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## Accessories

### without earthing studs



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#### **Flange plates**

Flange plates in two thicknesses, for easy replacement of pre-assembled flange plates on site.

### General ordering data

Type	KTB GP 453815 AB S4	Version
Order No.	<a href="#">1281070000</a>	Klippon TB (Terminal Box), flange plate, Height: 376 mm, Width: 117
GTIN (EAN)	4050118071672	mm, Depth: 3 mm, Gland plates: top, Bottom, Material: Stainless steel
Qty.	1 pc(s).	1.4404, electropolished, silver
Type	KTB GP 453815 CD S4	Version
Order No.	<a href="#">1281080000</a>	Klippon TB (Terminal Box), flange plate, Height: 406 mm, Width: 117
GTIN (EAN)	4050118071870	mm, Depth: 3 mm, Gland plates: left, right, Material: Stainless steel
Qty.	1 pc(s).	1.4404, electropolished, silver

### Stainless steel 1.4404 (316L)



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#### **Rain Covers**

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### General ordering data

Type	KTB RNHD 453815 S4E R	Version
Order No.	<a href="#">1314190000</a>	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

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**Accessories**
**Ratings plate 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 70X70M3 S2 R	Version
Order No.	<a href="#">1279320000</a>	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.	<a href="#">1257640000</a>	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.	<a href="#">1283450000</a>	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