

Klippon TB MH (Terminal Box - Multi Hinge) KTB MH 303020 S4E1

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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 specifically in the 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 MH enclosure range has the following advantages:

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Completely removable padlock tab
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Completely removable lid – without a tool
- Earthing stud in the cover and base of the enclosure
- Welded mounting feet
- International approvals

General ordering data

| | |
|------------|--|
| Type | KTB MH 303020 S4E1 |
| Order No. | 1194760000 |
| Version | Klippon TB MH (Terminal Box - Multi Hinge), Empty enclosure, stainless steel enclosure, Height: 306 mm, Width: 306 mm, Depth: 200 mm, Gland plates: Bottom, Material: Stainless steel 1.4404 (316L), electropolished, silver |
| GTIN (EAN) | 4032248977420 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|----------------------------|---------|-----------------------------|-------------|
| Width | 306 mm | Width (inches) | 12.047 inch |
| Height | 306 mm | Height (inches) | 12.047 inch |
| Depth | 200 mm | Depth (inches) | 7.874 inch |
| Mounting dimension - width | 332 mm | Mounting dimension - height | 203 mm |
| Net weight | 6,800 g | | |

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Cable glands, left

| | | | |
|-----|----|-----|----|
| M12 | 33 | M16 | 22 |
| M20 | 14 | M25 | 12 |
| M32 | 6 | M40 | 5 |
| M50 | 2 | M63 | 2 |
| M75 | 1 | | |

Cable glands, right

| | | | |
|-----|----|-----|----|
| M12 | 33 | M16 | 22 |
| M20 | 14 | M25 | 12 |
| M32 | 6 | M40 | 5 |
| M50 | 2 | M63 | 2 |
| M75 | 1 | | |

Cable glands, top/bottom

| | | | |
|-----|----|-----|----|
| M12 | 40 | M16 | 26 |
| M20 | 17 | M25 | 14 |
| M32 | 8 | M40 | 6 |
| M50 | 3 | M63 | 2 |
| M75 | 2 | | |

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) | IEx 17.0021 | Certificate no. empty enclosure (INMETRO) | IEx 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. (MARITREG) | 15.40073.250 | Certificate no. (cULus) | E243298 |
| Certificate No. (CCOE) | P461058_1 | | |

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Technical data

General information

| | | | |
|------------------------------|--|-----------------------------|---|
| AF size 1 | 10 mm | Access opening: height | 253 mm |
| Access opening: width | | Areas of use | Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore |
| | 247 mm | Installation advice | Terminal rail / mounting plate |
| Gland plates | Bottom | Material thickness of cover | 1.5 mm |
| Material thickness | 1.5 mm | Max. payload | 37 kg |
| Material thickness of flange | 3 mm | Overall dimensions | 317 x 357 x 215 |
| Opening angle lid | 130 ° | 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 |
| Position PE bolts | | Material | Stainless steel 1.4404 (316L) |
| | Page C | Surface finish | electropolished |
| Torque for lid screws | 2.5 Nm | Operating temperature, max. | 135 °C |
| Seal material | Silicone | Protection degree | IP66, IP67 |
| Operating temperature, min. | -60 °C | Enclosure attachment | 4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet) |
| Impact resistance | 7 J ATEX version, 10 J version standard | Integral fixing | 4, 6 or 9 stud bolts M6 inner (female) thread |
| Note: protection class | If used in temperature ranges above 105 °C, IP protection is limited to IP 66. | | |
| Lid attachment | 4 hinges and M6 hex-head slotted screws SW10 | | |

Housing earth

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

horizontal assembly

| | | | |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10 | 1x20 | WDU 16 / ZDU 16 | 1x16 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 2x40 | WDU 35 / ZDU 35 | 1x12 |
| WDU 4 / ZDU 4 | 2x33 | WDU 6 / ZDU 6 | 2x25 |

vertical assembly

| | | | |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10 | 1x20 | WDU 16 / ZDU 16 | 1x17 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 1x41 | WDU 35 / ZDU 35 | 1x12 |
| WDU 4 / ZDU 4 | 1x34 | WDU 6 / ZDU 6 | 1x25 |

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 | | |

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Technical data**Product information**

Product information **A customised test is required to guarantee application compliance

Approvals

Approvals



ROHS Conform

Downloads

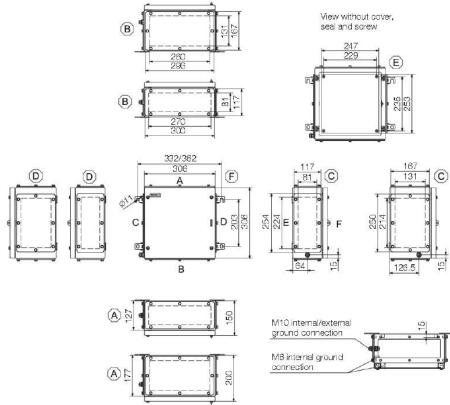
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X_160309_001ISS01 EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X_160412_001ISS01 |
| Brochure/Catalogue | MB OVERV. PROCESS WD DE MB KLIPPON ENCL.TECN EN MB PROCESS EN CAT 5 ENCL 17/18 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 |
| Engineering Data | STEP |
| Tender specification | Klippon TB MH 303020 S4E1_1194760000_DE Klippon TB MH 303020 S4E1_1194760000_EN Klippon TB MH 303020 S4E1_1194760000_NL |
| User Documentation | MB KLIPPON ENCL.TECN DE Assembly guidelines - empty enclosures |

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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. | 1192690000 | 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. | 1192680000 | 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 303020 AB S4 PE | Version |
| Order No. | 2023140000 | Klippon TB (Terminal Box), flange plate, Height: 296 mm, Width: 167 |
| GTIN (EAN) | 4050118403770 | 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. | 1285200000 | 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. | 1252190000 | 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. | 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 |

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Accessories

| | | |
|------------|----------------------------|--|
| Type | DOHA KTB A6 S2 W | Version |
| Order No. | 1252760000 | 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



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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 303020 AB S4 6MM | Version |
| Order No. | 1256360000 | Klippon TB (Terminal Box), flange plate, Height: 296 mm, Width: 167 |
| GTIN (EAN) | 4050118093773 | mm, Depth: 6 mm, Gland plates: top, Bottom, Material: Stainless steel |
| Qty. | 1 pc(s). | 1.4404, electropolished, silver |

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. | 1274150000 | Klippon EBi (Essential Box industrial), Mounting screw, silver |
| GTIN (EAN) | 4050118063820 | |
| Qty. | 1 pc(s). | |

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Accessories

Stainless steel 1.4301



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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 303020 R | Version | |
| Order No. | 1281400000 | | Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 311 |
| GTIN (EAN) | 4050118072082 | | mm, Depth: 221.2 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 KTB3030 HOR | Version | |
| Order No. | 800006722 | | Rail, TS 35, TS 35 x 7.5, Length: 245 mm, without slot, Steel, |
| GTIN (EAN) | 4050118652901 | | galvanized, chromium-plated |
| Qty. | 20 pc(s). | | |
| Type | TS35X7.5 ST KTB3030 VER | Version | |
| Order No. | 800006710 | | Rail, TS 35, TS 35 x 7.5, Length: 251 mm, without slot, Steel, |
| GTIN (EAN) | 4050118652833 | | 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 303020 AB S4 | Version |
|------------|----------------------------|---|
| Order No. | 1280970000 | Klippon TB (Terminal Box), flange plate, Height: 296 mm, Width: 167 |
| GTIN (EAN) | 4050118071658 | mm, Depth: 3 mm, Gland plates: top, Bottom, Material: Stainless steel |
| Qty. | 1 pc(s). | 1.4404, electropolished, silver |

306 x 306mm



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 3030 MSZN | Version |
| Order No. | 1193960000 | Klippon TB (Terminal Box), Mounting plate, Height: 251 mm, Width: 245 mm, Depth: 12 mm, Material: Sheet steel, galvanized, silver |
| GTIN (EAN) | 4050118028560 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 3030 S2N H | Version |
| Order No. | 1257670000 | Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 251 mm, Width: 245 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304), untreated, silver |
| GTIN (EAN) | 4050118049312 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 3030 S2N | Version |
| Order No. | 1193830000 | Klippon TB (Terminal Box), Mounting plate, Height: 251 mm, Width: 245 mm, Depth: 12 mm, Material: Stainless steel 1.4301 (304), untreated, silver |
| GTIN (EAN) | 4050118028430 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 3030 MSZN H | Version |
| Order No. | 2022190000 | Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 251 mm, Width: 245 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized, silver |
| GTIN (EAN) | 4050118403466 | |
| Qty. | 1 pc(s). | |

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Accessories

Ratings plate 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 |

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 303020 S4E R | Version |
| Order No. | 1314130000 | Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 311 |
| GTIN (EAN) | 4050118117240 | mm, Depth: 221.2 mm, Material: Stainless steel 1.4404 (316L), |
| Qty. | 1 pc(s). | electropolished, silver |