

## KTB QL 404020 S4E1

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



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 19 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, Height: 406 mm, Width: 406 mm, Depth: 200 mm, Basic material: Stainless steel 1.4404 (316L), electropolished, silver |
| Order No.  | <a href="#">8000109897</a>   |
| Type       | KTB QL 404020 S4E1   |
| GTIN (EAN) | 4099986759923  |
| Qty.       | 1 items  |

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## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

|            |         |                 |              |
|------------|---------|-----------------|--------------|
| Depth      | 200 mm  | Depth (inches)  | 7.874 inch   |
| Height     | 406 mm  | Height (inches) | 15.9842 inch |
| Width      | 406 mm  | Width (inches)  | 15.9842 inch |
| Net weight | 12240 g |                 |              |

### Temperatures

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

### Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 64dfc213-93f0-4c79-8ffa-c97fa9dcb873 |

### Cable glands, left

|     |    |     |    |
|-----|----|-----|----|
| M63 | 0  | M75 | 0  |
| M12 | 29 | M50 | 3  |
| M16 | 16 | M32 | 5  |
| M25 | 6  | M20 | 13 |
| M40 | 4  |     |    |

### Cable glands, right

|     |    |     |    |
|-----|----|-----|----|
| M25 | 6  | M63 | 0  |
| M75 | 0  | M16 | 16 |
| M40 | 4  | M50 | 3  |
| M32 | 5  | M20 | 13 |
| M12 | 29 |     |    |

### Cable glands, top/bottom

|     |    |     |    |
|-----|----|-----|----|
| M20 | 22 | M12 | 51 |
| M63 | 3  | M40 | 5  |
| M32 | 7  | M25 | 18 |
| M50 | 4  | M75 | 0  |
| M16 | 39 |     |    |

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### Certificate numbers enclosure

|   |                             |   |                           |
|---|-----------------------------|---|---------------------------|
| Certificate No. UL Haz.Loc.               | E223792                     | Declaration of Conformity No. (DoC LVD) | DE PS261X 160412 001ISS03 |
| Certificate No. UL Ord.Loc.               | E243298                     | Certificate No. UL 508A                 | E223801                   |
| Attestation of Conformity No. (AoC)       | DE PS261X 160309 001ISS06   | Certificate No. UL Terminal Box         | E223792                   |
| Certificate no. empty enclosure (INMETRO) | LMP 21.0016U                | Certificate no. Terminal Box (ATEX)     | IBExU14ATEX1050           |
| Certificate no. empty enclosure (ATEX)    | IBExU14ATEX1028 U           | Certificate no. Terminal Box (INMETRO)  | LMP 21.0017               |
| Certificate no. Terminal Box (IECEX)      | IECEXIBE14.0013             | Certificate no. empty enclosure (IECEX) | IECEX IBE 14.0004U        |
| Approval conditions                       | ATEX, IECEX, INMETRO, cULus |   |                           |

### General information

|                                 |   |                              |  |
|---------------------------------|---|------------------------------|--|
| Material thickness of cover     | 1.5 mm  | Material thickness of flange | 3 mm   |
| Material thickness of enclosure | 1.5 mm  | Material thickness           | 1.5 mm                                       |
| Silicone                        | Yes   | Operating temperature, max.  | 135 °C                                       |
| Operating temperature, min.     | -60 °C  | Lid attachment               | 4 hinges and M6 hex-head slotted screws SW10 |
| 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                              |
| Impact resistance               | 10 J version standard, 7 joules in acc. with IEC 60079-0  | Protection degree            | IP66, IP67                                   |
| Basic material                  | Stainless steel 1.4404 (316L)   | Seal material                | Silicone                                     |
| Integral fixing                 | 4, 6 or 9 stud bolts M6 inner (female) thread   | Seal material of cover       | Silicone                                     |
| Note: protection class          | If used in temperature ranges above 105 °C, IP protection is limited to IP 66.  | Flange plate mounting        | M6 hex-head slotted screws SW10              |
| Seal material of flange plate   | Silicone  | Protection class (UL)        | Type 3, Type 4X, Type 12                     |
| Opening angle lid               | 130.00 °  | Flange plate                 | No   |
| Lid                             | Yes   | Position PE bolts            | Enclosure side C                             |
| Areas of use                    | Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore   |                              |  |

### Housing earth

|                            |  |                            |   |
|----------------------------|--|----------------------------|---|
| Earth, enclosure, cover    | Welded-on M6 stainless-steel earth stud in enclosure body and lid. | Earth, enclosure, external | Continuous M10 earth stud in body enclosure |
| Earth, enclosure, internal | Continuous M10 earth stud in body enclosure                        |                            |   |

### horizontal assembly

|                             |      |                 |      |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10             | 2x30 | WDU 16 / ZDU 16 | 2x24 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 3x59 | WDU 35 / ZDU 35 | 1x18 |

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|                       |      |               |      |
|-----------------------|------|---------------|------|
| WDU 4 / ZDU 4         | 3x49 | WDU 6 / ZDU 6 | 3x37 |
| Fuse holder available | No   |               |      |

### vertical assembly

|                             |      |                 |      |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10             | 2x30 | WDU 16 / ZDU 16 | 2x24 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 3x59 | WDU 35 / ZDU 35 | 1x18 |
| WDU 4 / ZDU 4               | 3x49 | WDU 6 / ZDU 6   | 3x37 |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002503    | ETIM 9.0    | EC002503    |
| ETIM 10.0   | EC002503    | ECLASS 14.0 | 27-18-05-02 |
| ECLASS 15.0 | 27-18-05-02 |             |             |

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## Accessories

### 400 x 400mm



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 4040 MSZN         | Version   |
| Order No.  | <a href="#">8000110195</a> | Klippon TB (Terminal Box), Mounting plate, Height: 351 mm, Width: 345 mm, Depth: 1.5 mm, Basic material: Sheet steel, galvanized, |
| GTIN (EAN) | 4099986779334              |   |
| Qty.       | 1 ST                       | silver  |
| Type       | KTB MOPL 4040 MSZN H       | Version   |
| Order No.  | <a href="#">8000115915</a> | Klippon TB (Terminal Box), Mounting plate, Height: 351 mm, Width: 345 mm, Depth: 1.5 mm, Basic material: Sheet steel, galvanized, |
| GTIN (EAN) | 4099986783034              |   |
| Qty.       | 1 ST                       | silver  |
| Type       | KTB MOPL 4040 S2N H        | Version   |
| Order No.  | <a href="#">8000115904</a> | Klippon TB (Terminal Box), Mounting plate, Height: 351 mm, Width: 345 mm, Depth: 1.5 mm, Basic material: Stainless steel 1.4301   |
| GTIN (EAN) | 4099986782938              | (304), untreated, silver  |
| Qty.       | 1 ST                       |   |

### 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.  | <a href="#">1279320000</a> | Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: 70 mm, Width: 70 mm, Depth: 20 mm, Basic material: Stainless steel |
| GTIN (EAN) | 4050118070101              | 1.4301, Stainless steel 1.4301 (304), Mirror polished, silver  |
| Qty.       | 1 ST                       |  |

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## Accessories

### Closure elements



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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.  | <a href="#">1191610000</a> | Klippon TB (Terminal Box), Closure element, Basic material: Stainless |
| GTIN (EAN) | 4050118137965              | steel 1.4404, untreated, silver                                       |
| Qty.       | 50 ST                      |   |
| Type       | KTB QLL S2 DB3             | Version   |
| Order No.  | <a href="#">1191590000</a> | Klippon TB (Terminal Box), Closure element, Basic material: Stainless |
| GTIN (EAN) | 4050118134285              | steel 1.4301, untreated, silver                                       |
| Qty.       | 50 ST                      |   |
| Type       | KTB QLL S2 SLS             | Version   |
| Order No.  | <a href="#">1191600000</a> | Klippon TB (Terminal Box), Closure element, Basic material: Stainless |
| GTIN (EAN) | 4050118137989              | steel 1.4301, untreated, silver                                       |
| Qty.       | 10 ST                      |   |

### 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.

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## Accessories

### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | SD FIXING SET              | Version   |
| Order No.  | <a href="#">1285200000</a> | Klippon TB (Terminal Box), Identification plate fixing set, Height: 12 mm, Width: 12 mm, Depth: 16.4 mm, Basic material: Stainless steel, rust-proof, untreated, silver |
| GTIN (EAN) | 4050118075472              |   |
| Qty.       | 1 ST                       |   |
| Type       | TPSD FIXING SET KTB        | Version   |
| Order No.  | <a href="#">1252190000</a> | Klippon TB (Terminal Box), Type plate fixings set, Basic material: Stainless steel, rust-proof, untreated, silver   |
| GTIN (EAN) | 4050118043969              |   |
| Qty.       | 20 ST                      |   |

### 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.  | <a href="#">1192680000</a> | Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21 mm, Width: 21 mm, Depth: 48.7 mm, Basic material: Brass, untreated, silver |
| GTIN (EAN) | 4032248974641              |  |
| Qty.       | 1 ST                       |  |
| Type       | PEBZ M10 KTB S4 SET        | Version  |
| Order No.  | <a href="#">1192690000</a> | Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21 mm, Width: 21 mm, Depth: 48.7 mm, Basic material: Stainless steel          |
| GTIN (EAN) | 4032248974658              |  |
| Qty.       | 1 ST                       | 1.4404 (316L), untreated, silver   |

### TS 20



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**Terminal rails**

The mounting rails are available in two sizes for mounting DIN rails (e.g. electronics, terminals) components in the enclosures.

### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | TS20/CX10 ST ZN 4040 HOR   | Version   |
| Order No.  | <a href="#">8000117051</a> | Klippon TB (Terminal Box), Enclosures, with slot, Height: 20 mm, Width: 366 mm, Depth: 10 mm, Basic material: Steel, galvanized, silver |
| GTIN (EAN) | 4099986829909              |   |
| Qty.       | 20 ST                      |   |
| Type       | TS20/CX10 ST ZN 4040 VER   | Version   |
| Order No.  | <a href="#">8000117038</a> | Klippon TB (Terminal Box), Enclosures, straight, Height: 20 mm, Width: 366 mm, Depth: 10 mm, Basic material: Steel, galvanized, silver  |
| GTIN (EAN) | 4099986829800              |   |
| Qty.       | 20 ST                      |   |

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### Depth 15 mm



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The mounting rails are available in two sizes for mounting DIN rails (e.g. electronics, terminals) components in the enclosures.

#### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | TS35X15 ST KTB4040 HOR     | Version   |
| Order No.  | <a href="#">8000116371</a> | Klippon TB (Terminal Box), Enclosures, without slot, Height: 35 mm, |
| GTIN (EAN) | 4099986820791              | Width: 345 mm, Depth: 15 mm, Basic material: Steel, galvanic zinc   |
| Qty.       | 20 ST                      | plated and passivated, silver                                       |
| Type       | TS35X15 ST KTB4040 VER     | Version   |
| Order No.  | <a href="#">8000116352</a> | Klippon TB (Terminal Box), Enclosures, without slot, Height: 35 mm, |
| GTIN (EAN) | 4099986820692              | Width: 351 mm, Depth: 15 mm, Basic material: Steel, galvanic zinc   |
| Qty.       | 20 ST                      | plated and passivated, silver                                       |

### Depth 7.5 mm



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**Terminal rails**

The mounting rails are available in two sizes for mounting DIN rails (e.g. electronics, terminals) components in the enclosures.

#### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | TS35X7.5 ST KTB4040 HOR    | Version   |
| Order No.  | <a href="#">8000116111</a> | Klippon TB (Terminal Box), Enclosures, without slot, Height: 35 mm, |
| GTIN (EAN) | 4099986820586              | Width: 345 mm, Depth: 7.5 mm, Basic material: Steel, galvanic zinc  |
| Qty.       | 20 ST                      | plated and passivated, silver                                       |
| Type       | TS35X7.5 ST KTB4040 VER    | Version   |
| Order No.  | <a href="#">8000116101</a> | Klippon TB (Terminal Box), Enclosures, without slot, Height: 35 mm, |
| GTIN (EAN) | 4099986820470              | Width: 351 mm, Depth: 7.5 mm, Basic material: Steel, galvanic zinc  |
| Qty.       | 20 ST                      | plated and passivated, silver                                       |

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## 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.  | <a href="#">1274150000</a> | Klippon EB (Essential Box), Mounting screw, Height: 13.3 mm, Width: 8.5 mm, Depth: 8.5 mm, Basic material: Steel, galvanized, galvanic zinc plated and passivated, silver |  |
| GTIN (EAN) | 4050118063820              |   |  |
| Qty.       | 1 ST                       |   |  |

### Installation material



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|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | FKSC M6X8 D9/SW3           | Version  |  |
| Order No.  | <a href="#">0642600000</a> | Klippon TB (Terminal Box), Mounting screw, Basic material: Steel |  |
| GTIN (EAN) | 4008190058258              |  |  |
| Qty.       | 50 ST                      |  |  |