

**KLIPPON STB 2.1 SS E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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Ideally suited for the energy, process and transportation industries, the Klippon® STB enclosure series is the perfect complement to our existing Klippon® enclosure portfolio. Enclosures in this series are approved according to international standards such as e.g. EN62208 and EN60079-0/7 (ATEX).

- Mirror-polished or electropolished stainless steel 1.4404 (316L), 1.5 mm
- High-temperature-resistant seal as standard - extended temperature range of -60°C to +100°C for Ex application (+120°C only for industrial application)
- Approved according to ATEX, IECEx, cULus, Lloyds Register, Germanischer Lloyd, GL DNV and INMETRO
- Flexible options for fastening the internal mounting rail
- IP66 protection
- Secure, permanent function of the seal is ensured by seal compression protection
- Earthing stud in the cover and base of the enclosure
- Laser cut weld seams for increased quality
- Already welded-on mounting feet guarantee optimum enclosure installation

Weidmüller can manufacture and supply this enclosure - according to customer specifications - fitted with all necessary terminals and cable glands.

**General ordering data**

|            |                                                                                                                                                                                             |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Klippon STB (Small Terminal Box), Empty enclosure, stainless steel enclosure, Height: 190 mm, Width: 150 mm, Depth: 90 mm, Material: Stainless steel 1.4404 (316L), electropolished, silver |
| Order No.  | <a href="#">1058840000</a>                                                                                                                                                                  |
| Type       | KLIPPON STB 2.1 SS E                                                                                                                                                                        |
| GTIN (EAN) | 4032248800711                                                                                                                                                                               |
| Qty.       | 1 pc(s).                                                                                                                                                                                    |

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## Technical data

## Dimensions and weights

|                            |         |                 |            |
|----------------------------|---------|-----------------|------------|
| Depth                      | 90 mm   | Depth (inches)  | 3.543 inch |
| Height                     | 190 mm  | Height (inches) | 7.48 inch  |
| Width                      | 150 mm  | Width (inches)  | 5.905 inch |
| Mounting dimension - width | 175 mm  | Weight          | 2.08 g     |
| Net weight                 | 1,998 g |                 |            |

## Temperatures

|                       |                  |
|-----------------------|------------------|
| Operating temperature | -60 °C... 100 °C |
|-----------------------|------------------|

## Cable glands, left

|     |    |     |    |
|-----|----|-----|----|
| M12 | 15 | M16 | 10 |
| M20 | 8  | M25 | 3  |
| M32 | 3  | M40 | 2  |
| M50 | 1  |     |    |

## Cable glands, right

|     |    |     |    |
|-----|----|-----|----|
| M12 | 18 | M16 | 10 |
| M20 | 10 | M25 | 3  |
| M32 | 3  | M40 | 2  |
| M50 | 1  |     |    |

## Cable glands, top/bottom

|     |    |     |    |
|-----|----|-----|----|
| M12 | 15 | M16 | 10 |
| M20 | 8  | M25 | 3  |
| M32 | 3  | M40 | 2  |
| M50 | 1  |     |    |

## Certificate numbers enclosure

|                                           |                                                                                                |                                         |                           |
|-------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------|
| Approval conditions                       | ATEX, DNV, EAC, IECEX, INMETRO, LR, RMRS, UL AEx Class Div., UL AEx Class Zone, cULus, KC, CCC | Attestation of Conformity No. (AoC)     | DE PS2620 160308 001ISS02 |
| Certificate No. (ATEX)                    | IBEXU07ATEX1147U                                                                               | Certificate No. (EAC)                   | C-DE.HB07.B.00089-20      |
| Certificate No. (IECEX)                   | IECEXIBE09.0018U                                                                               | Certificate No. (LLOYDSREG)             | 08_20032                  |
| Certificate no. (INMETRO)                 | IEX13.0002U                                                                                    | Certificate no. (cULus)                 | E256877                   |
| Certificate no. Terminal Box (AEx)        | E223792                                                                                        | Certificate no. Terminal Box (ATEX)     | IBEXU07ATEX1148           |
| Certificate no. Terminal Box (EAC)        | C-DE.HB07.B.00089/20 Ex Terminal Box; C-DE.A154.B.00251/19 Ind. Terminal Box                   | Certificate no. Terminal Box (IECEX)    | IECEX IBE 09.0019         |
| Certificate no. Terminal Box (INMETRO)    | LMP 21.0018                                                                                    | Certificate no. Terminal Box (KOSHA)    | 16-AV4BO-0247X            |
| Certificate no. empty enclosure (ATEX)    | IBEXU 07ATEX1147U                                                                              | Certificate no. empty enclosure (IECEX) | IECEX IBE 09.0018U        |
| Certificate no. empty enclosure (INMETRO) | IEX 13.0002U                                                                                   | Certificate no., empty enclosure (EAC)  | C-DE.HB07.B.00089/20      |
| Declaration of Conformity No. (DoC LVD)   | DE PS2620 160412 001ISS01                                                                      |                                         |                           |

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## Technical data

## General information

|                                 |                                                                                                           |                             |                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------|
| Access opening: height          | 172 mm                                                                                                    | Access opening: width       | 130 mm                                                            |
| Areas of use                    | Explosive risk zone,<br>Packaging industry,<br>Transportation, Process<br>industry, Marine<br>engineering | Enclosure attachment        | Welded-on mounting foot<br>with 8-mm holes                        |
| Flange plate                    | No                                                                                                        | Halogen                     | No                                                                |
| Impact resistance               | 10 J version standard, 7 J<br>ATEX version                                                                | Integral fixing             | TAS 20 rail welded to floor                                       |
| Lid                             | Yes                                                                                                       | Lid attachment              | M5 hexagonal screw with<br>slot and 10mm distance<br>across flats |
| Material                        | Stainless steel 1.4404<br>(316L)                                                                          | Material thickness of cover | 1.5 mm                                                            |
| Material thickness of enclosure | 1.5 mm                                                                                                    | Number of lid screws        | 4                                                                 |
| Operating temperature, max.     | 100 °C                                                                                                    | Operating temperature, min. | -60 °C                                                            |
| Protection class (UL)           | Type 4, Type 4x                                                                                           | Protection degree           | IP66                                                              |
| Seal material                   | Silicone                                                                                                  | Surface finish              | electropolished                                                   |
| Torque for lid screws           | 2.5 Nm                                                                                                    |                             |                                                                   |

## Housing earth

|                            |                                            |                            |                                                 |
|----------------------------|--------------------------------------------|----------------------------|-------------------------------------------------|
| Cross-section , max.       | 25 mm <sup>2</sup>                         | Earth, enclosure, cover    | Welded-on M6 x 10<br>stainless-steel earth stud |
| Earth, enclosure, external | Welded-on M6 x 16<br>stainless-steel bolts | Earth, enclosure, internal | Welded-on M6 x 16<br>stainless-steel bolts      |

## vertical assembly

|                             |      |                 |      |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10             | 1x15 | WDU 16 / ZDU 16 | 1x13 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 1x30 | WDU 4 / ZDU 4   | 1x25 |
| WDU 6 / ZDU 6               | 1x20 |                 |      |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002503    | ETIM 7.0    | EC002503    |
| ETIM 8.0    | 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 |             |             |

## Important note

|                     |                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------|
| Product information | The ambient temperature for the assembly will be reduced to +60°C and the surface temperature to +100°C. |
|---------------------|----------------------------------------------------------------------------------------------------------|

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## Technical data

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E256877 |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">C-DE.HB07.B.00089-Empty Enclosures and Ex. Terminal Box</a><br><a href="#">C-DE.AJ54.B.00251.19 Ind. Terminal Box</a><br><a href="#">CCC 2020322303002356 STB Assembly Enclosure</a><br><a href="#">Attestation of Conformity - Klippon STB Empty Enclosures - AoC DE PS2620 160308 001ISS04 RUC-DE.BE02.B.00173</a><br><a href="#">08_20032</a><br><a href="#">IBEXU07ATEX1148</a><br><a href="#">IECEXIBE09.0018U</a><br><a href="#">IECEXIBE09.0019</a><br><a href="#">IEX13.0002U</a><br><a href="#">IEX13.0003</a><br><a href="#">15.40041.250</a><br><a href="#">16-AV4BO-247X</a><br><a href="#">59358-08</a><br><a href="#">IBEXU07ATEX1147U</a><br><a href="#">INMETRO Certificado LMP 21.0018 KLIPPON STB</a><br><a href="#">EU Declaration of Conformity - Klippon STB Empty Enclosures Ex - DoC DE PS2620 160412 001ISS01</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tender specification                        | <a href="#">Klippon STB 2.1 SS E_1058840000_DE</a><br><a href="#">Klippon STB 2.1 SS E_1058840000_EN</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| User Documentation                          | <a href="#">Assembly guidelines - empty enclosures</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Brochures                                   | <a href="#">MB OVERV. PROCESS WD DE</a><br><a href="#">MB KLIPPON ENCL.TECN EN</a><br><a href="#">MB PROCESS EN</a><br><a href="#">FL KLIPPON STB EN</a><br><a href="#">FL SHIPBUILDING 2016 EN</a><br><a href="#">FL SHIPBUILDING 2016 EN</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

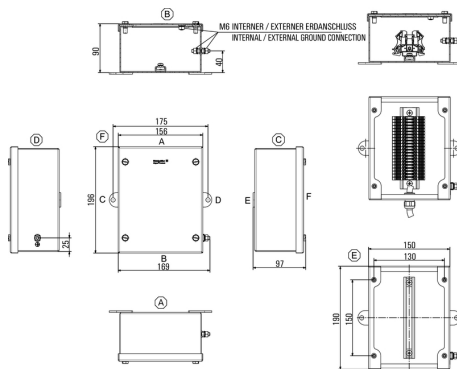
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## Drawings

### Dimensioned drawing



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## Accessories

## Ventilation plugs - DAE



In addition to cable glands for a wide range of applications, the product portfolio is rounded off by plugs, pressure compensation elements, adaptors and the corresponding accessories such as locknuts, sealing rings, flat washers and earthing rings.

## General ordering data

|            |                            |                                                               |
|------------|----------------------------|---------------------------------------------------------------|
| Type       | DAE M12 SS                 | Version                                                       |
| Order No.  | <a href="#">1868550000</a> | DAE (ventilation element), Compensating element, M 12, 10 mm, |
| GTIN (EAN) | 4032248440405              | IP66, IP68, IP69K, Stainless steel 1.4305 (303)               |
| Qty.       | 10 pc(s).                  |                                                               |
| Type       | DAE M12 PA LONG            | Version                                                       |
| Order No.  | <a href="#">1868570000</a> | DAE (ventilation element), Compensating element, M 12, 10 mm, |
| GTIN (EAN) | 4032248440429              | IP66, IP68, IP69K, Polyamide 6                                |
| Qty.       | 10 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.  | <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).                   |                                                                       |

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## Accessories

|            |                            |                                                                        |
|------------|----------------------------|------------------------------------------------------------------------|
| 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).                   |                                                                        |

## 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.  | <a href="#">2475490000</a> | Klippon TB (Terminal Box), Grounding strap, Sscrewed, Material: Steel, |
| GTIN (EAN) | 4050118487206              | Green/yellow                                                           |
| Qty.       | 1 pc(s).                   |                                                                        |

## Terminal rails - TS35



The system accessories for the Klippon® STB enclosure series allows you to easily adapt the enclosures to meet the specific requirements of every application.

- DIN Rails TS 35
- Mounting screws

Weidmüller can manufacture and supply this enclosure - according to customer specifications - fitted with all necessary terminals and cable glands.

## General ordering data

|            |                            |                                                                |
|------------|----------------------------|----------------------------------------------------------------|
| Type       | SFNS5 VKMU M5 SW15         | Version                                                        |
| Order No.  | <a href="#">0433500000</a> | Klippon STB (Small Terminal Box), Fixing nut, Material: Steel, |
| GTIN (EAN) | 4008190494520              | galvanised, silver                                             |
| Qty.       | 20 pc(s).                  |                                                                |

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | TS35X15 ST STB 2.1 STB 3   | Version                                                             |
| Order No.  | <a href="#">8000073219</a> | Rail, TS 35, TS 35 x 15, Width: 150 mm, Steel, galvanic zinc plated |
| GTIN (EAN) | 4064675356776              | and passivated                                                      |
| Qty.       | 20 pc(s).                  |                                                                     |

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| Type       | TS35X7.5 ST STB 2.1 STB ... | Version                                                                |
|------------|-----------------------------|------------------------------------------------------------------------|
| Order No.  | <a href="#">1567660000</a>  | Rail, TS 35, TS 35 x 7.5, Width: 150 mm, without slot, Steel, galvanic |
| GTIN (EAN) | 4008190084868               | zinc plated and passivated                                             |
| Qty.       | 100 pc(s).                  |                                                                        |

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