

**KTB FS 453820 S4E1****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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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 in process or power generation industries. The Klippon® TB FS 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**

|            |                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Klippon TB FS (Terminal Box - Fixing Screw), Empty enclosure, stainless steel enclosure, Height: 458 mm, Width: 382 mm, Depth: 200 mm, Gland plates: Bottom, Material: Stainless steel 1.4404 (316L), electropolished, silver |
| Order No.  | <a href="#">1196160000</a>                                                                                                                                                                                                    |
| Type       | KTB FS 453820 S4E1                                                                                                                                                                                                            |
| GTIN (EAN) | 4032248978885                                                                                                                                                                                                                 |
| 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 |
| Mounting dimension - height | 305 mm      | Mounting dimension - width | 408 mm      |
| Net weight                  | 8,460 g     | Width                      | 382 mm      |
| Width (inches)              | 15.039 inch |                            |             |

**Temperatures**

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

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**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  |     |    |

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**Technical data**
**Certificate numbers enclosure**

|                                           |                                                                                                         |                                         |                                                                                    |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|
| Approval conditions                       | ATEX, CCoE, DNV, EAC, IECEx, INMETRO, KC, NEPSI, CCC, RMRS, UL AEx Class Div., UL AEx Class Zone, cULus | Attestation of Conformity No. (AoC)     |                                                                                    |
|                                           |                                                                                                         |                                         | DE PS261X 160309 001ISS03                                                          |
| Certificate No. (ATEX)                    | KEMA10ATEX0046U                                                                                         | Certificate No. (CCOE)                  | CCOEP267536/2                                                                      |
| Certificate No. (DNVGL)                   | TAE000013S                                                                                              | Certificate No. (EAC)                   | RUC-DE.MIO62.B.04799                                                               |
| Certificate No. (IECEx)                   | IECExKEM10.0015U                                                                                        | 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)                   | E256877                                                                                                 | Certificate no. Terminal Box (AEx)      | E223792                                                                            |
| Certificate no. Terminal Box (ATEX)       |                                                                                                         | Certificate no. Terminal Box (EAC)      | C-DE.HB07.B.00089/20<br>Ex Terminal Box; C-DE.A154.B.00251/19<br>Ind. Terminal Box |
|                                           | IBExU14ATEX1050                                                                                         | Certificate no. Terminal Box (INMETRO)  | IEEx 17.0021                                                                       |
| Certificate no. Terminal Box (IECEx)      | IECExIBE14.0013                                                                                         | Certificate no. Terminal Box (NEPSI)    | GYJ14.1309                                                                         |
| Certificate no. Terminal Box (KOSHA)      | 16-AV4BO-0245X                                                                                          | Certificate no. empty enclosure (IECEx) | IECEx IBE 14.0004U                                                                 |
| Certificate no. empty enclosure (ATEX)    | IBExU14ATEX1028 U                                                                                       | Certificate no. empty enclosure (NEPSI) | GYJ14.1308U                                                                        |
| Certificate no. empty enclosure (INMETRO) | IEEx 17.0020U                                                                                           | Declaration of Conformity No. (DoC LVD) | DE PS261X 160412 001ISS02                                                          |
| Certificate no., empty enclosure (EAC)    | C-DE.HB07.B.00089/20                                                                                    |                                         |                                                                                    |

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**Technical data**
**General information**

|                              |                                                                                                                                      |                             |                                                                                                   |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------|
| AF size                      | 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 |
| Dimension of box             | 352 mm                                                                                                                               | Enclosure attachment        | 4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet)               |
| Flange plate                 | 580x620x290                                                                                                                          | Flange plate mounting       | M6 hexagonal head screws 10 SW                                                                    |
| Gland plates                 | Yes                                                                                                                                  | Impact resistance           | 7 J ATEX version, 10 J version standard                                                           |
| Integral fixing              | Bottom                                                                                                                               | Lid                         | Yes                                                                                               |
| Lid attachment               | 4, 6 or 9 stud bolts M6 inner (female) thread                                                                                        | Material                    | Stainless steel 1.4404 (316L)                                                                     |
| Material thickness           | M6 hex-head slotted screws SW10                                                                                                      | Material thickness of cover | 1.5 mm                                                                                            |
| Material thickness of flange | 1.5 mm                                                                                                                               | Max. payload                | 70 kg                                                                                             |
| Note: protection class       | 3 mm                                                                                                                                 | Number of lid screws        | 4                                                                                                 |
| Operating temperature, max.  | If used in temperature ranges above 105 °C, IP protection is limited to IP 66.                                                       | Operating temperature, min. | -60 °C                                                                                            |
| Overall dimensions           | 135 °C                                                                                                                               | Position PE bolts           | Enclosure side C                                                                                  |
| Protection degree            | 469 x 433 x 208.5                                                                                                                    | Seal material               | Silicone                                                                                          |
| Standards                    | IP66, IP67                                                                                                                           | Surface finish              | electropolished                                                                                   |
| Torque for lid screws        | 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 |                             |                                                                                                   |
|                              | 2.5 Nm                                                                                                                               |                             |                                                                                                   |

**Housing earth**

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

**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 | ECLASS 11.0 | 27-18-05-02 |

## Important note

|                     |                                    |
|---------------------|------------------------------------|
| Product information | Minimum order quantity (10 pieces) |
|---------------------|------------------------------------|

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| 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 2020322303002358 KTB Assembly Enclosure</a><br><a href="#">CCC 2020322303002357 KTB Empty Enclosure</a><br><a href="#">Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS03</a><br><a href="#">IEC 17.0021</a><br><a href="#">IEC 17.0020U</a><br><a href="#">IBEXU 14ATEX 1028U</a><br><a href="#">IBEXU 14ATEX 1050</a><br><a href="#">IECExIBE 14.0004U</a><br><a href="#">IECExIBE 14.0013</a><br><a href="#">TAE000013S</a><br><a href="#">15.40073.250</a><br><a href="#">RUC-DE.MIO62.B.04799</a><br><a href="#">GYJ 14.1310X</a><br><a href="#">IECExPTB 11.0071</a><br><a href="#">PTB 11ATEX 2019</a><br><a href="#">16-AV4BO-245X</a><br><a href="#">P4610581_1</a><br><a href="#">EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS02</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tender specification                        | <a href="#">Klippon TB FS 453820 S4E1_1196160000_DE</a><br><a href="#">Klippon TB FS 453820 S4E1_1196160000_EN</a><br><a href="#">Klippon TB FS 453820 S4E1_1196160000_NL</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| User Documentation                          | <a href="#">Assembly guidelines - empty enclosures</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Creation date March 23, 2021 8:22:49 AM CET

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## Drawings

### Dimensioned drawing

