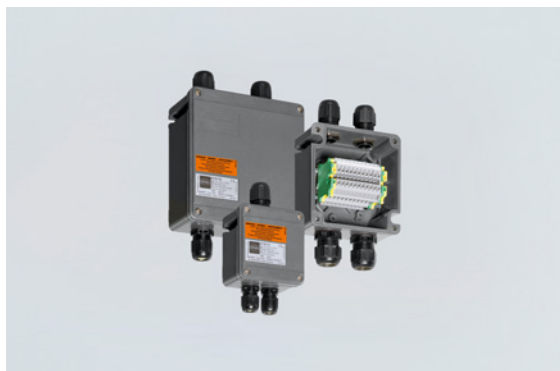


8118/122-199-K0125 Art. No. 220336



- Compact, impact-resistant enclosure, also available in versions with integrated metal bracket for optimised mounting of cable glands
- Customer-specific equipping with terminals, cable glands and miniature fuses
- IP66 degree of protection

MY R. STAHL 8118B



R. STAHL Series 8118 terminal boxes are equipped, in accordance with customer specifications, with various terminal blocks and cable glands made from plastic or metal. If required, they are also equipped with miniature fuses. They are available in 3 design sizes and are made from glass fibre reinforced polyester resin.

Technical Data

Explosion Protection

| | |
|---------------------------------|---|
| Area of application | European Union (ATEX) IECEX |
| Application range (zones) | 1, 2, 21, 22 |
| IECEX gas certificate | IECEX PTB 06.0026 |
| IECEX gas explosion protection | Ex eb IIC T6 / T5 Gb |
| IECEX dust certificate | IECEX PTB 06.0026 |
| IECEX dust explosion protection | Ex tb IIIC T80 °C / T95 °C Db |
| ATEX gas certificate | PTB 99 ATEX 3103 |
| ATEX gas explosion protection | ⊕ II 2 G Ex eb IIC T6 / T5 Gb |
| ATEX dust certificate | PTB 99 ATEX 3103 |
| ATEX dust explosion protection | ⊕ II 2 D Ex tb IIIC T80 °C / T95 °C Db |
| Certificates | ATEX (PTB), IECEX (PTB) |
| Ship approval | DNV |
| Explosion protection note | For product label, see area of application. |

Electrical Data

| | |
|---|---|
| Rated operational voltage AC | 690 V |
| Max. number of conductors for conductor cross-section 1.5 mm ² | At 3 A: 26 ^{*)} At 6 A: 26 ^{*)} At 10 A: 26 ^{*)} At 16 A: 6 ^{*)} |
| Max. number of conductors for conductor cross-section 2.5 mm ² | At 3 A: Any At 6 A: 26 ^{*)} At 10 A: 26 ^{*)} At 16 A: 14 ^{*)} At 20 A: 6 ^{*)} |

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Electrical Data

| | |
|---|---|
| Max. number of conductors for conductor cross-section 4 mm ² | At 3 A: Any At 6 A: Any At 10 A: 22 ^{*)} At 16 A: 22 ^{*)} At 20 A: 22 ^{*)} At 25 A: 8 ^{*)} |
| Max. number of conductors for conductor cross-section 6 mm ² | At 3 A: Any At 6 A: Any At 10 A: Any At 16 A: 20 ^{*)} At 20 A: 20 ^{*)} At 25 A: 20 ^{*)} At 35 A: 4 ^{*)} |
| Max. number of conductors note | Each inserted conductor and each internal connection conductor counts as a conductor. Jumpers and protective conductors do not count. ^{*)} When using these values, simultaneity factors or load factors must be taken into account according to IEC 61439. A mixed assembly with electrical circuits of different cross sections and currents is possible with proportional utilisation of the different tables of values. |

Ambient Conditions

| | |
|---------------------|--|
| Ambient temperature | -20 °C ... +40 °C (T6) -20 °C ... +55 °C (T5) |
| Ambient temperature | -4°F ... +104°F (T6) -4°F ... +131°F (T5) |

Mechanical Data

| | |
|-------------------------------------|--|
| IP degree of protection (IEC 60529) | IP66 |
| Enclosure material | Polyester resin, Glass fibre reinforced |
| Enclosure colour | Dark grey |
| Flammability according to | IEC/EN 60695 UL 94 ASTM D635 |
| Silicone-free | No |
| Cover | Screw-on cover |
| Cover fixing type | M4 stainless steel screws, With captive screws |
| Width | 115 mm |
| Width, inches | 4.53 in |
| Height | 115 mm |
| Height in inches | 4.53 in |
| Depth | 64 mm |
| Depth in inches | 2.52 in |
| Packaging unit | 1 |
| Weight | 580 g |
| Weight | 1.28 lb |

Mounting / Installation

| | |
|---|-------------|
| Tightening torque of cover screw 1 | 1.4 Nm |
| Tightening torque of cover screw 1 lbf in | 12.4 lbf in |

Components

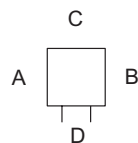
| | |
|--------------|------------------------------|
| Entry 1 | 1 x 8161/7-M25-1707 |
| Entry 1 type | Polyamide cable gland, black |

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Components

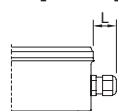
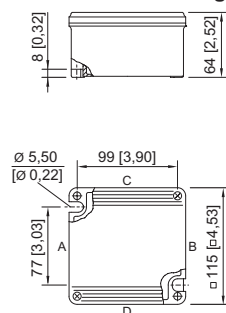
| | |
|-----------------------------------|--|
| Entry 1 | M25 x 1.5 |
| Entry 1 clamping range | 7 – 17 mm |
| Entry 1 clamping range, inch | 0.28 – 0.67 in |
| Metal entry possible 1 | No |
| Entry 2 | 1 x HSK-K-MZ-ExM25x1.5 Union nut in aluminum, black |
| Entry 2 type | Polyamide cable gland, BK |
| Entry 2 | M25 x 1.5 |
| Entry 2 clamping range | 13 – 18 mm |
| Entry 2 clamping range, inch | 0.51 – 0.71 in |
| Metal entry possible 2 | No |
| Entries installation options/side | According to order |
| Terminal rail | 35 x 50 mm (1x) |
| Terminal rail | 1,38 x 3,94 " (1x) |
| Type of terminals 1 | 4 x Phoenix UT 4 2-conductor, 4 mm ² , grey |
| Type of terminals PE 1 | 1 x Phoenix UT 4-PE 2-conductor, 4 mm ² , green-yellow |
| | For connection cross-sections, see the manufacturer's data sheet |

Technical Drawings – Subject to Alterations



"—" = marking for mounting options

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Length L
 Projection dimension for cable gland of Series 8161:
 For M20: 25 to 31 [0.98 to 1.22]
 For M25: 27 to 33 [1.06 to 1.3]
 For M32: 32 to 39 [1.26 to 1.54]
 Projection dimension for cable gland with strain relief
 of Series HSK-K-MZ
 For M25: 41 [1.61]

8118/.2.
Enclosure SZ 2

Accessories

Plastic cable gland













8161/7-M25-1707, Ex e
 Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm
 Lot size 50 pieces

Art. No.

239157

8118/122-199-K0125 Art. No. 220336

| Terminal block | | Art. No. |
|---|--|----------|
|  | Phoenix Contact terminal block UT 4 | 113045 |
|  | Phoenix Contact terminal block UT 4-PE | 113057 |

| Brass plate with thread | | Art. No. |
|--|---|----------|
|  | 8118 SZ 1, plate 37 x 30 mm [1.46 x 1.18 inch] 1 x M20 x 1.5 with M4 PE connection (left) Can be installed in enclosures of SZ 1, SZ 2 and SZ 3 | 168913 |
|  | 8118 SZ 1, plate 37 x 30 mm [1.46 x 1.18 inch] 1 x M20 x 1.5 with M4 PE connection (right) Can be installed in enclosures of SZ 1, SZ 2 and SZ 3 | 168914 |
|  | 8118 SZ 2, plate 56 x 40 mm [2.2 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (right) For installation in enclosure SZ 2 and SZ 3 | 244072 |
|  | 8118 SZ 2, plate 56 x 40 mm [2.2 x 1.57 inch] 1 x M25 x 1.5 with M4 PE connection (left) For installation in enclosure SZ 2 and SZ 3 | 211341 |
|  | 8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3 | 168915 |
| | 8118 SZ 3/B, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3 | 244075 |
|  | 8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 1 x M20 x 1.5 + 1 x M10 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3 | 211342 |
|  | 8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M25 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3 | 168916 |
|  | 8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 1 x M25 x 1.5 + 1 x M10 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3 | 211343 |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.