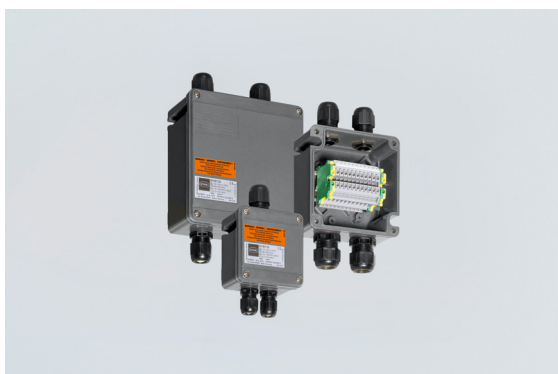




- Compact, impact-resistant enclosure, also available in versions with integrated metal bracket for optimised mounting of cable glands
- Customer-specific equipping with terminals, cable glands and miniature fuses
- IP66 degree of protection

E3

MY R. STAHL 8118B



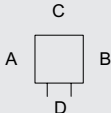
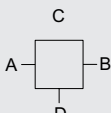
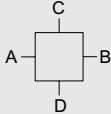
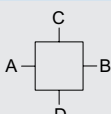
R. STAHL Series 8118 terminal boxes are equipped, in accordance with customer specifications, with various terminal blocks and cable glands made from plastic or metal. If required, they are also equipped with miniature fuses. They are available in 3 design sizes and are made from glass fibre reinforced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

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

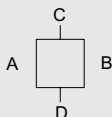
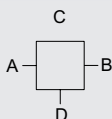
Selection Table

Product description	Ex e terminal box						
Ambient temperature	-40 °C ... +40 °C (T6)						
Ambient temperature	-40 °C ... +55 °C (T5)						
Ambient temperature	-40°F ... +104°F (T6)						
Ambient temperature	-40°F ... +131°F (T5)						
Figure	Product Type	Cable glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	Weight
	8118/112-047-0	2 x 8161/7-M20-1304 Polyamide cable gland, black (Provided separately) M20 x 1.5 (4 – 13 mm) 1 x 8290/3-M20 Polyamide stopping plug (Provided separately) M20 x 1.5	3 x WAGO 264-220 4-conductor, 2.5 mm², grey 1 x WAGO 264-727/ 999-950 4-conductor, 2.5 mm², green-yellow	15 x 70 mm (1x)	690 V	224642	360 g
	8118/122-504-0	3 x 8161/7-M25-1707 Polyamide cable gland, black (Provided separately) M25 x 1.5 (7 – 17 mm) 2 x 8290/3-M25 Polyamide stopping plug (Provided separately) M25 x 1.5	10 x Phoenix UT 4 2-conductor, 4 mm², grey 2 x Phoenix UT 4-PE 2-conductor, 4 mm², green-yellow	35 x 50 mm (1x)	690 V	328449	600 g
	8118/132-542-0	4 x 8161/7-M25-1707 Polyamide cable gland, black (Provided separately) M25 x 1.5 (7 – 17 mm) 2 x 8290/3-M25 Polyamide stopping plug (Provided separately) M25 x 1.5	11 x Phoenix UT 4 2-conductor, 4 mm², grey 2 x Phoenix USLKG 5 2-conductor, 4 mm², green-yellow	35 x 50 mm (1x)	690 V	224646	890 g

Selection Table

Product description	Ex e terminal box						
Ambient temperature	-20 °C ... +40 °C (T6)						
Ambient temperature	-20 °C ... +55 °C (T5)						
Ambient temperature	-4°F ... +104°F (T6)						
Ambient temperature	-4°F ... +131°F (T5)						
Figure	Product Type	Cable glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	Weight
	8118/122-199-K0125	1 x 8161/7-M25-1707 Polyamide cable gland, black M25 x 1.5 (7 – 17 mm) 1 x HSK-K-MZ-Ex- M25x1.5 Polyamide cable gland, BK Union nut in aluminum, black M25 x 1.5 (13 – 18 mm)	4 x Phoenix UT 4 2-conductor, 4 mm², grey 1 x Phoenix UT 4-PE 2-conductor, 4 mm², green-yellow	35 x 50 mm (1x)	690 V	220336	580 g
Product description	Ex e terminal box with earth plate						
Ambient temperature	-50 °C ... +40 °C (T6)						
Ambient temperature	-50 °C ... +55 °C (T5)						
Ambient temperature	-58°F ... +104°F (T6)						
Ambient temperature	-58°F ... +131°F (T5)						
Figure	Product Type	Cable glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	Weight
	8118/122-504-2	1 x 8290/3-M25 Polyamide stopping plug (Provided separately) M25 x 1.5 3 x Through hole without cable entry Ø 25 mm	5 x WAGO 2002-1301 3-conductor, 2.5 mm², grey 1 x WAGO 2002-1307 3-conductor, 2.5 mm², green-yellow	35 x 50 mm (1x)	550 V	202995	680 g
	8118/132-542-2	2 x 8290/3-M25 Polyamide stopping plug (Provided separately) M25 x 1.5 4 x Through hole without cable entry Ø 25 mm	7 x WAGO 2002-1401 4-conductor, 2.5 mm², grey 1 x WAGO 2002-1407 4-conductor, 2.5 mm², green-yellow	35 x 85 mm (1x)	550 V	202996	890 g
Product description	Ex e terminal box with earth plate						
Ambient temperature	-50 °C ... +55 °C (T5)						
Ambient temperature	-50 °C ... +55 °C (T4)						
Ambient temperature	-50°F ... +131°F (T5)						
Ambient temperature	-50°F ... +131°F (T4)						
Figure	Product Type	Cable glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	Weight
	8118/122-331-GB	2 x 8290/3-M20 Polyamide stopping plug M20 x 1.5 2 x Through hole without cable entry Ø 20 mm	6 x Weidmüller WDU 2.5 2-conductor, 2.5 mm², beige 2 x Weidmüller WPE 4 2-conductor, 4 mm², green-yellow	35 x 50 mm (1x)	690 V	133117	720 g
	8118/122-305-GB	2 x 8290/3-M25 Polyamide stopping plug M25 x 1.5 2 x Through hole without cable entry Ø 25 mm	6 x Weidmüller WDU 2.5 2-conductor, 2.5 mm², beige 2 x Weidmüller WPE 4 2-conductor, 4 mm², green-yellow	35 x 50 mm (1x)	690 V	133123	720 g

Selection Table

Product description Ambient temperature Ambient temperature		Ex i terminal box -40 °C ... +75 °C (T6) -40°F ... +167°F (T6)					
Figure	Product Type	Cable glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	Weight
	8118/212-047-0	2 x 8161/8-M20-1304 Polyamide cable gland, blue (Provided separately) M20 x 1.5 (4 – 13 mm) 1 x 8290/3-M20 Polyamide stopping plug (Provided separately) M20 x 1.5	3 x WAGO 264-724 4-conductor, 2.5 mm², blue 1 x WAGO 264-220 4-conductor, 2.5 mm², grey	15 x 70 mm (1x)	60 V	224643	360 g
	8118/222-504-0	3 x 8161/8-M25-1707 Polyamide cable gland, blue (Provided separately) M25 x 1.5 (7 – 17 mm) 2 x 8290/3-M25 Polyamide stopping plug (Provided separately) M25 x 1.5	9 x Phoenix UT 4 BU 2-conductor, 4 mm², blue 2 x Phoenix UT 4 2-conductor, 4 mm², grey	35 x 50 mm (1x)	60 V	224645	610 g

"—" = marking for installation option
Cable glands and stopping plugs are included separately

Technical Data

Variant	Ex e terminal box T6	Ex e terminal box with earth plate T6	Ex e terminal box with earth plate T5	Ex i terminal box T6
Explosion Protection				
Area of application	European Union (ATEX) IECEX	IECEX European Union (ATEX)	IECEX European Union (ATEX)	IECEX European Union (ATEX)
IECEX gas explosion protection	Ex eb IIC T6 / T5 Gb	Ex eb IIC T6 / T5 Gb	Ex eb IIC T5 / T4 Gb	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db	Ex tb IIIC T80 °C / T95 °C Db	Ex tb IIIC T95 °C / T130 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ex II 2 G Ex eb IIC T6 / T5 Gb	Ex II 2 G Ex eb IIC T6 / T5 Gb	Ex II 2 G Ex eb IIC T5 / T4 Gb	Ex II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T80 °C / T95 °C Db	Ex II 2 D Ex tb IIIC T80 °C / T95 °C Db	Ex II 2 D Ex tb IIIC T95 °C / T130 °C Db	Ex II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO), Korea (KTL)	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO), Korea (KTL)	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO), Korea (KTL)	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO)
Ship approval	DNV	DNV	DNV	DNV
Notes	For product label, see area of application.			
Mechanical Data				
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Silicone-free	No	No	No	No

Max. number of conductors

Enclosure size	Conductor cross-section			
	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²
8118/112, 8118/114	At 3 A: 16 [⌚] At 6 A: 16 [⌚] At 10 A: 16 [⌚] At 16 A: 6 [⌚]	At 3 A: Any At 6 A: 12 [⌚] At 10 A: 12 [⌚] At 16 A: 12 [⌚] At 20 A: 6 [⌚]	At 3 A: Any At 6 A: Any At 10 A: 12 [⌚] At 16 A: 12 [⌚] At 20 A: 12 [⌚] At 25 A: 8 [⌚]	-
8118/122, 8118/124	At 3 A: 26 [⌚] At 6 A: 26 [⌚] At 10 A: 26 [⌚] At 16 A: 6 [⌚]	At 3 A: Any At 6 A: 26 [⌚] At 10 A: 26 [⌚] At 16 A: 14 [⌚] At 20 A: 6 [⌚]	At 3 A: Any At 6 A: Any At 10 A: 22 [⌚] At 16 A: 22 [⌚] At 20 A: 22 [⌚] At 25 A: 8 [⌚]	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 [⌚]
8118/132, 8118/134	At 3 A: 36 [⌚] At 6 A: 36 [⌚] At 10 A: 26 [⌚] At 16 A: 6 [⌚]	At 3 A: Any At 6 A: 36 [⌚] At 10 A: 36 [⌚] At 16 A: 18 [⌚] At 20 A: 6 [⌚]	At 3 A: Any At 6 A: Any At 10 A: 32 [⌚] At 16 A: 32 [⌚] At 20 A: 22 [⌚] At 25 A: 8 [⌚]	At 3 A: Any At 6 A: Any At 10 A: Any At 16 A: 24 [⌚] At 20 A: 24 [⌚] At 25 A: 24 [⌚] At 35 A: 6 [⌚]

Note

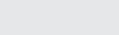
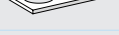
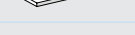
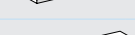
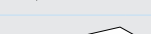
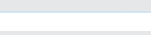
Each inserted conductor and each internal connection conductor counts as a conductor.
Jumpers and protective conductors do not count.

[⌚] 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.

Accessories

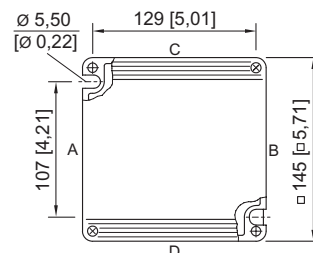
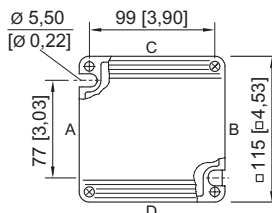
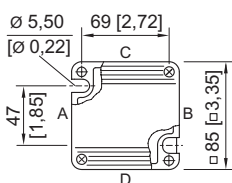
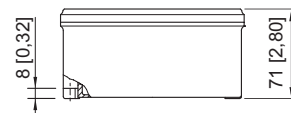
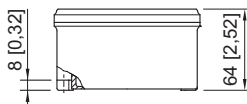
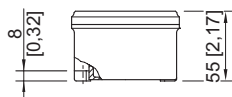
Figure	Description	Art. No.	Weight
Plastic cable gland			
	8161/7-M20-1304, Ex e Polyamide, M20 x 1,5 mm, 4 – 13 mm Lot size 50 pieces	239156	10 g
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157	10 g
	8161/8-M20-1304, Ex i Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm Lot size 50 pieces	239164	10 g
Stopping plug			
	8290/3-M20 Plastic, M20 x 1.5 Lot size 100 pieces	285773	500 g
	8290/3-M25 Plastic, M25 x 1.5 Lot size 100 piece	285774	700 g
Terminal block			
	Phoenix Contact terminal block UT 4	113045	9 g
	Phoenix Contact terminal block UT 4-PE	113057	13 g

Accessories

Figure	Description	Art. No.	Weight
Brass plate with thread			
	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	-
	8118 SZ 4, plate 95 x 46 mm [3.74 x 1.81 inch] 2 x M20 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 3	168917	-
	8118 SZ 4, plate 95 x 46 mm [3.74 x 1.81 inch] 2 x M25 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 3	168918	-
	8118 SZ 5, plate 107 x 46 mm [4.21 x 1.81 inch] 2 x M20 x 1.5 + 1 x M10 with M4 PE connection For installation in enclosure SZ 3	211344	-
	8118 SZ 5, plate 107 x 46 mm [4.21 x 1.81 inch] 2 x M25 x 1.5 + 1 x M10 with M4 PE connection (centre) For installation in enclosure SZ 3	211345	-

Batch size: Purchase order quantity in [no. of units]; the delivery quantity is automatically rounded to the batch size.

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

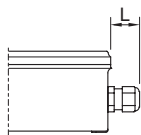


8118/1.
Enclosure SZ 1

8118/2.
Enclosure SZ 2

8118/3.
Enclosure SZ 3

E3



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]