

8118/221-899 Art. No. 133219



- Resistant Ex e enclosure, universally usable as connection or junction boxes and/or to safeguard electric distributors up to 6.3 A
- IP66 degree of protection
- With mantle terminals or with a combination of mantle terminals and miniature fuses (optional)

MY R. STAHL 8118A



R. STAHL Series 8118 junction boxes are equipped with 4, 5 or 8 mantle terminals depending on their design size. As an option, miniature fuses can still be installed in addition. Junction boxes are therefore also suitable for safeguarding. The robust enclosure made from glass fibre reinforced polyester resin can be equipped with plastic or metal cable glands.

Technical Data

Explosion Protection

Scope of validity	European Union (ATEX) IECEX
Application range (zones)	1 2 21 22
IECEX gas certificate	IECEX PTB 06.0026
IECEX gas explosion protection	Ex ia ib IIC T6 Gb
IECEX dust certificate	IECEX PTB 06.0026
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	PTB 99 ATEX 3103
ATEX gas explosion protection	⊕ II 2 G Ex ia ib IIC T6 Gb
ATEX dust certificate	PTB 99 ATEX 3103
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO)
Declaration of Conformity	China (CCC)
Explosion protection note	For product label, see scope of validity.

Electrical Data

Rated operational voltage AC	60 V
Rated operational voltage AC	0 ... 60 V
Permissible rated operational current with 7 loaded terminals	For conductor cross-section of 1.5 mm ² : 13 A For conductor cross-section of 2.5 mm ² : 17 A For conductor cross-section of 4 mm ² : 24 A For conductor cross-section of 6 mm ² : 32 A
Permissible rated operational current with 6 loaded terminals	For conductor cross-section of 1.5 mm ² : 14 A For conductor cross-section of 2.5 mm ² : 18 A For conductor cross-section of 4 mm ² : 25 A For conductor cross-section of 6 mm ² : 33 A

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Electrical Data

Permissible rated operational current with 5 loaded terminals	For conductor cross-section of 1.5 mm ² : 14 A For conductor cross-section of 2.5 mm ² : 20 A For conductor cross-section of 4 mm ² : 25 A For conductor cross-section of 6 mm ² : 35 A
Permissible rated operational current with ≤ 4 loaded terminals	For conductor cross-section of 1.5 mm ² : 16 A For conductor cross-section of 2.5 mm ² : 20 A For conductor cross-section of 4 mm ² : 25 A For conductor cross-section of 6 mm ² : 35 A

Ambient Conditions

Ambient temperature	-20 °C ... +75 °C (T6)
Ambient temperature	-4°F ... +167°F (T6)

Mechanical Data

Degree of protection IP (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
Permissible number of conductors per clamping unit, solid	Mantle terminal, M8.5 x 1 Conductor cross-section 1.5 mm ² : Number of conductors min. 2, max. 7 Conductor cross-section 2.5 mm ² : Number of conductors min. 2, max. 5 Conductor cross-section 4 mm ² : Number of conductors min. 2, max. 3 Conductor cross-section 6 mm ² : Number of conductors min. 2, max. 2
Permissible number of conductors per clamping unit, finely stranded prepared, core end sleeve crimped	Mantle terminal M8.5 x 1 Conductor cross-section 1.5 mm ² : Number of conductors min. 2, max. 5 Conductor cross-section 2.5 mm ² : Number of conductors min. 2, max. 3 Conductor cross-section 4 mm ² : Number of conductors min. 2, max. 5
Permissible number of conductors per clamping unit, finely stranded unprepared	Mantle terminal, M8.5 x 1 Conductor cross-section 1.5 mm ² : Number of conductors min. 2, max. 5 Conductor cross-section 2.5 mm ² : Number of conductors min. 2, max. 3 Conductor cross-section 4 mm ² : Number of conductors min. 2, max. 5
Permissible number of conductors per clamping unit note	All conductors of a terminal must have the same cross section and be made of the same material.
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, inches	4.53 in
Depth	64 mm
Depth, inches	2.52 in
Packaging unit	1
Weight	500 g
Weight	1.1 lb

Mounting / Installation

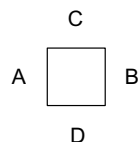
Tightening torque of cover screw 1	1.4 Nm
Tightening torque of cover screw 1 lbf in	12.4 lbf in

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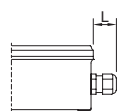
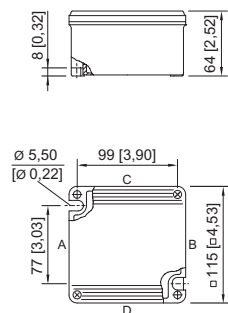
Components

Entries installation options/side	According to order
Type of terminals 1	8 x Mantle terminal 6 mm ²

Technical Drawings – Subject to Alterations



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

	Brass plate with thread	Art. No.
	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


Installation equipment

Ex i junction box



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Spare Parts

Angle		Art. No.
	Bracket 8118 SZ 2, for junction boxes, 4 x M20 For installation in enclosure SZ 2	209556
	Bracket 8118 SZ 2, for junction boxes, 4 x M25 For installation in enclosure SZ 2	202959

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.