Installation equipment

Ex e junction box

8118/121-539 Art. No. 133253





- 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)





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		
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		
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEx (PTB), India (PESO), Korea (KTL)	
Ship approval	DNV	
Declaration of conformity	China (CCC)	
Explosion protection note	For product label, see area of application.	
Electrical Data		
Rated operational voltage AC	0 750 V	
Rated operational voltage AC	750 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

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	6	
Ambient temperature	-40 °C +40 °C (T6) -40 °C +55 °C (T5)	
Ambient temperature	-40°F +104°F (T6) -40°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	
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 in inches	4.53 in	
Depth	64 mm	
Depth in inches	2.52 in	
Packaging unit	1	
Weight	600 g	
Weight	1.32 lb	
Mounting / Installation	·	
Tightening torque of cover screw 1	1.4 Nm	
	1	

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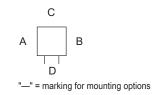
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Mounting / Installation

Tightening torque of cover screw 1 lbf in	12.4 lbf in
Components	
Entry 1	2 x 8161/7-M25-1707
	(Provided separately)
Entry 1 type	Polyamide cable gland, black
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
Entries installation options/side	Size 2: 2x M25 (D)
Type of terminals 1	5 x Mantle terminal
	6 mm ²

Technical Drawings – Subject to Alterations





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For M25: 41 [1.61]

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]

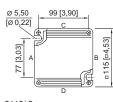
Projection dimension for cable gland of Series 8161:

Projection dimension for cable gland with strain relief of Series HSK-K-MZ

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





8118/.2. Enclosure SZ 2

Accessories

Plastic cable gland		Art. No.
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157

Brass plate with threadArt. No.Image: Splate with thread8118 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 3244072Image: Splate S6 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 3211341

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66	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
0000	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

Spare Parts

Angle		Art. No.
E Store	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.