Ex e junction box



8118/121-538 Art. No. 133252



- 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		
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		
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	ATEX (EUK), 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	

Ex e junction box



8118/121-538 Art. No. 133252

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	-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 mm²: Number of conductors min. 2, max. 7 Conductor cross-section 2.5 mm²: Number of conductors min. 2, max. 5 Conductor cross-section 4 mm²: Number of conductors min. 2, max. 3 Conductor cross-section 6 mm²: 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 mm²: Number of conductors min. 2, max. 5 Conductor cross-section 2.5 mm²: Number of conductors min. 2, max. 3 Conductor cross-section 4 mm²: 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	625 g	
Weight	1.38 lb	
Mounting / Installation		
Tightening torque of cover screw 1	1.4 Nm	

Ex e junction box



8118/121-538 Art. No. 133252

Mounting / Installation	
Tightening torque of cover screw 1 lbf in	12.4 lbf in
Components	
Entry 1	4 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: 4x M25 (A+B+D)
Type of terminals 1	5 x Mantle terminal
	6 mm ²

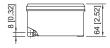
Technical Drawings - Subject to Alterations



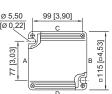


"—" = marking for mounting options

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







8118/.2. Enclosure SZ 2

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]

Accessories

Plastic cable gla	and	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	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

Ex e junction box



8118/121-538 Art. No. 133252

60	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)	168915
	For installation in enclosure SZ 2 and SZ 3 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)	244075
	For installation in enclosure SZ 2 and SZ 3	
•	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.
	Bracket 8118 SZ 2, for junction boxes, 4 x M25 For installation in enclosure SZ 2	202959

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