## Ex e junction box



#### 8118/121-800 Art. No. 133220



- 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	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 <sup>2</sup> : 13 A For conductor cross-section of 2.5 mm <sup>2</sup> : 17 A For conductor cross-section of 4 mm <sup>2</sup> : 24 A For conductor cross-section of 6 mm <sup>2</sup> : 32 A	
Permissible rated operational current with 6 loaded terminals	For conductor cross-section of 1.5 mm <sup>2</sup> : 14 A For conductor cross-section of 2.5 mm <sup>2</sup> : 18 A For conductor cross-section of 4 mm <sup>2</sup> : 25 A For conductor cross-section of 6 mm <sup>2</sup> : 33 A	

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Electrical Data		
Permissible rated operational current with	For conductor cross-section of 1.5 mm <sup>2</sup> : 14 A	
5 loaded terminals	For conductor cross-section of 2.5 mm <sup>2</sup> : 20 A	
	For conductor cross-section of 4 mm <sup>2</sup> : 25 A	
	For conductor cross-section of 6 mm²: 35 A	
Permissible rated operational current with ≤ 4 loaded terminals	For conductor cross-section of 1.5 mm <sup>2</sup> : 16 A For conductor cross-section of 2.5 mm <sup>2</sup> : 20 A	
3 4 loaded terminals	For conductor cross-section of 4 mm <sup>2</sup> : 25 A	
	For conductor cross-section of 6 mm <sup>2</sup> : 35 A	
Ambient Conditions		
Ambient temperature	-60 °C +40 °C (T6)	
	-60 °C +55 °C (T5)	
Ambient temperature	-76°F +104°F (T6)	
	-76°F +131°F (T5)	
Mechanical Data	IP66	
IP degree of protection (IEC 60529)  Enclosure material		
Enclosure colour	Polyester resin, Glass fibre reinforced	
	Dark grey	
Flammability according to	IEC/EN 60695 UL 94	
	ASTM D635	
Silicone-free	No	
Permissible number of conductors per	Mantle terminal, M8.5 x 1	
clamping unit, solid	Conductor cross-section 1.5 mm <sup>2</sup> : Number of conductors min. 2, max. 7	
	Conductor cross-section 2.5 mm²: Number of conductors min. 2, max. 5	
	Conductor cross-section 4 mm <sup>2</sup> : Number of conductors min. 2, max. 3 Conductor cross-section 6 mm <sup>2</sup> : Number of conductors min. 2, max. 2	
Permissible number of conductors per	Mantle terminal M8.5 x 1	
clamping unit, finely stranded prepared,	Conductor cross-section 1.5 mm <sup>2</sup> : Number of conductors min. 2, max. 5	
core end sleeve crimped	Conductor cross-section 2.5 mm <sup>2</sup> : Number of conductors min. 2, max. 3	
	Conductor cross-section 4 mm <sup>2</sup> : Number of conductors min. 2, max. 5	
Permissible number of conductors per	Mantle terminal, M8.5 x 1	
clamping unit, finely stranded unprepared	Conductor cross-section 1.5 mm²: Number of conductors min. 2, max. 5	
	Conductor cross-section 2.5 mm <sup>2</sup> : Number of conductors min. 2, max. 3 Conductor cross-section 4 mm <sup>2</sup> : Number of conductors min. 2, max. 5	
Permissible number of conductors per	All conductors of a terminal must have the same cross section and be made of the same	
clamping unit note	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	480 g	
Weight	1.06 lb	
Mounting / Installation		
Tightening torque of cover screw 1	1.4 N · m	

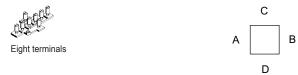
## Ex e junction box



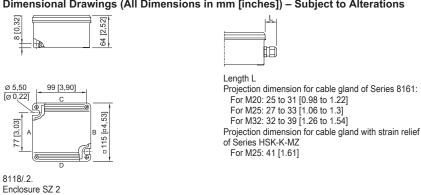
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Mounting / Installation				
Tightening torque of cover screw 1 lbf in	12.4 lbf in			
Components				
Entries installation options/side	Without drilled holes			
Type of terminals 1	8 x Mantle terminal			
	6 mm <sup>2</sup>			

#### **Technical Drawings - Subject to Alterations**



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



#### **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

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## **Spare Parts**

Angle		Art. No.
	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.