



01667E00

Junction Boxes Series 8118

- Explosion protection to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Enclosures in glass fibre reinforced polyester resin
- Supplied in 3 sizes
 - with 4, 5 or 8 terminals
 - with 3, 7 or 6 terminals and integral small equipment fuse on request
- Degree of protection IP 66

STAHL

Junction boxes Series 8118 are used for carrying and distributing electrical power in hazardous areas.

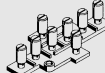
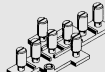
They are supplied in 3 sizes with and without small equipment fuse, and are therefore suitable not only as pure connection and distribution boxes, but also for protecting electrical loads up to 6,3 A.

Cable glands in plastic Series 8161 are used as standard cable entries.

Bell-mouthed or metal glands can be fitted if ordered. The metal cable entries are connected to the earthing system via brass plates.

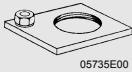
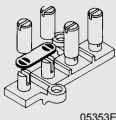
Zones 1 & 2, 21 & 22

Selection table

Version	Cable entries					Ordering code	Weight
		Position	Drillings	Cable glands	Stopping plugs		
EEx e Version Size 1  01656E00	 05349E00 4 terminals	 09147E00	3 x M 20 x 1.5	2 x M 20 x 1.5	1 x M 20 x 1.5	8118/111-401	0,280
		 05576E00 5 terminals	 09148E00	4 x M 20 x 1.5	3 x M 20 x 1.5	1 x M 20 x 1.5	8118/111-503
EEx i Version Size 1  01548E00	 05349E00 4 terminals	 09147E00	3 x M 20 x 1.5	2 x M 20 x 1.5	1 x M 20 x 1.5	8118/211-401	0,280
		 05576E00 5 terminals	 09148E00	4 x M 20 x 1.5	3 x M 20 x 1.5	1 x M 20 x 1.5	8118/211-403
EEx e Version Size 2  01655E00	 05348E00 8 terminals	 09149E00	4 x M 25 x 1.5	3 x M 25 x 1.5	1 x M 25 x 1.5	8118/121-805	0,570
		 09151E00	6 x M 20 x 1.5	4 x M 20 x 1.5	2 x M 20 x 1.5	8118/121-806	0,560
		 09151E00	6 x M 25 x 1.5	4 x M 25 x 1.5	2 x M 25 x 1.5	8118/121-807	0,600
EEx e Version Size 3  01654E00	 05348E00 8 terminals	 09155E00	6 x M 32 x 1.5	4 x M 32 x 1.5	2 x M 32 x 1.5	8118/131-811	0,850
		 09154E00	8 x M 25 x 1.5	6 x M 25 x 1.5	4 x M 25 x 1.5	8118/131-814	0,850
Note	Cable entries: standard: cable glands Series 8161 options: metal glands with brass plates, bell mouthed glands or cable glands Series 8161 in non-standard positions						
Plugs and cable glands are enclosed separately							
Junction boxes with integral small equipment fuse on request							

Technical Data

Explosion protection			
Gas explosion protection	EEx e  II 2 G EEx e II T6 or T5 EEx i  II 2 G EEx ia IIC T6 or T5		
Dust explosion protection	 II 2 D IP 66 T80 °C, T95 °C		
Certificates			
Gas explosion protection	PTB 99 ATEX 3103		
Dust explosion protection	LCIE 02 ATEX 6240		
Other certificates	SIMTARS (Australia), VNIIEF (Russia), UL do Brasil (Brazil)		
Material			
Housing	Polyester resin, dark grey ~ RAL 7012, impact strength > 7 Nm, material self-extinguishing and flame resistant IEC 92-1, UL 94, ASTM D 635-77		
Gaskets	Polyurethan, foam		
Cover fixing	4 x M 4 cheese head screw, stainless steel	4 x M 4 cheese head screw, stainless steel	4 x M 4 cheese head screw, stainless steel
Type	8118/.11	8118/.21	8118/.31
Rated voltage	550 V	750 V	750 V
Connection terminals			
Type of terminals	Hood type terminals	Hood type terminals	Hood type terminals
Max. number	4 or 5	5 or 8	8
Current load capacity at cross section of	max. 25 A 4mm ²	max. 32 A 6 mm ²	max. 44 A 10 mm ²
max. number of terminals	4 mm ² solid	6 mm ² solid	10 mm ² solid
Cable entries			
Standard	Drillings; cable glands Series 8161 and stopping plugs Series 8290 are enclosed separately (see selection table) 3 x M 20 4 x M 20	Drillings; cable glands Series 8161 and stopping plugs Series 8290 are enclosed separately (see selection table) 6 x M 20 4 x M 25 6 x M 25	Drillings; cable glands Series 8161 and stopping plugs Series 8290 are enclosed separately (see selection table) 8 x M 25 6 x M 32
Special	drillings to order, metal glands with brass plates or bell mouthed glands		
Ambient temperature	EEx e: - 20 °C ... + 55 °C - 50 °C ... + 55 °C with special cable glands EEx i: - 20 °C ... + 75 °C - 50 °C ... + 75 °C with special cable glands		
Degree of protection	IP 66		

Accessories and spare parts					
Designation	Illustration	Description	Ordering code	Weight kg	
Brass plate with thread		For earth continuity when using metal glands drillings are drilled to order; for glands can be fitted into enclosure			
		size 1 size 2 size 3			
		1 x M 20 x 1,5 Side C/D Side C/D Side C/D	8118013550	0,030	
		1 x M 25 x 1,5 1 x M 32 x 1,5 1 x M 20 x 1,5 Side C/D Side C/D	8118010550	0,060	
		2 x M 25 x 1,5 Side C/D Side C/D	8118011550	0,080	
		2 x M 32 x 1,5 Side C/D	8118012550	0,140	
Jumper link		for bridging of 2 hood-type terminals (side by side; usable for junction boxes)			
		8118/.1.	8118901570	0,002	
		8118/.2.	8118902570	0,003	
		8118/.3.	8118903570	0,005	

Dimension drawings (all dimensions in mm) - subject to alterations

04466E00

8118/1.
Junction box

04467E00

8118/2.
Junction box

04468E00

8118/3.
Junction box

04469E00

Nominal size	L [mm]	
	min.	max.
M20	25	31
M25	27	33
M32	32	39

Additional dimension for
cable entries Series 8161

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.

