

Junction Boxes Series 8118



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
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STAHL



- > Enclosure made of glass fibre reinforced polyester resin
- > 3 different sizes available
 - with 4, 5 or 8 terminals
 - as a junction box with integrated miniature fuse:
 - 3 terminals and 1 miniature fuse
 - 7 terminals and 1 miniature fuse
 - 6 terminals and 2 miniature fuses
- > Degree of protection IP66

E3



02714E00

Series 8118 junction boxes are used to transport and distribute electrical energy in areas subject to explosion hazards. Three different sizes of robust enclosures made of glass fibre reinforced polyester resin are available. They are equipped with mantle terminals or with mantle terminals and miniature fuses. The junction boxes are therefore not only suitable as simple connection or distribution boxes but also for protecting electrical loads up to 6.3 A. In the standard version, plastic cable glands are used. If required, metal cable glands which can be installed in the earthing system by means of brass plates or cable glands with strain relief are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

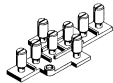
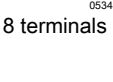
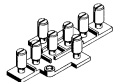
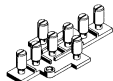
WebCode 8118A



Junction Boxes

Series 8118

Selection Table

Version	Cable glands				Order number	Weight kg
	Position	Holes	Cable glands	Stopping plug		
Ex e version size 1  01656E00	 05349E00 4 terminals	 09147E00 3 x M20 x 1.5	2 x M20 x 1.5	1 x M20 x 1.5	8118/111-401	0.280
	 05576E00 5 terminals	 09148E00 4 x M20 x 1.5	3 x M20 x 1.5	1 x M20 x 1.5	8118/111-503	0.300
	number of terminals according to the order		number of holes acc. to order	--	8118/111-.99	
				--		
Ex i version size 1  01548E00	 05349E00 4 terminals	 09147E00 3 x M20 x 1.5	2 x M20 x 1.5	1 x M20 x 1.5	8118/211-401	0.280
	 05576E00 4 terminals	 09148E00 4 x M20 x 1.5	3 x M20 x 1.5	1 x M20 x 1.5	8118/211-403	0.330
	number of terminals according to the order		number of holes acc. to order	acc. to order	8118/211-.99	0.336
				acc. to order		
Ex e version size 2  01655E00	 05348E00 8 terminals	 09149E00 4 x M25 x 1.5	3 x M25 x 1.5	1 x M25 x 1.5	8118/121-805	0.570
	 05348E00 8 terminals	 09151E00 6 x M20 x 1.5	4 x M20 x 1.5	2 x M20 x 1.5	8118/121-806	0.560
	 05348E00 8 terminals	 09151E00 6 x M25 x 1.5	4 x M25 x 1.5	2 x M25 x 1.5	8118/121-807	0.600
	 05576E00 5 terminals	 09153E00 4 x M25 x 1.5	4 x M25 x 1.5	--	8118/121-538	0.625
	 05576E00 5 terminals	 09150E00 2 x M25 x 1.5	2 x M25 x 1.5	--	8118/121-539	0.600
	number of terminals according to the order		number of holes acc. to order	--	8118/121-.99	
	 05348E00 8 terminals	 09149E00 3 x M25 x 1.5	--*	3 x M25 x 1.5	8118/121-804-2	0.750
Ex i version size 2  10549E00	 05348E00 8 terminals	 09149E00 number of holes acc. to order	acc. to order	acc. to order	8118/221-899	0.500

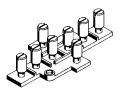
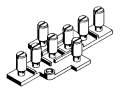
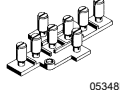
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Selection Table

Version	Cable glands				Order number	Weight kg
	Position	Holes	Cable glands	Stopping plug		
Ex e version size 3  01654E00	  8 terminals	6 x M32 x 1.5	4 x M32 x 1.5	2 x M32 x 1.5	8118/131-811	0.850
		8 x M25 x 1.5	6 x M25 x 1.5	4 x M25 x 1.5	8118/131-814	0.850
	Number of terminals and fuses acc. to order		number of holes acc. to order	--	--	8118/131- .99
	  8 terminals	4 x M25 x 1.5	--	4 x M25 x 1.5	8118/131-842-2	0.980
		number of holes acc. to order	acc. to order	acc. to order	8118/231-899	0.612
Ex i version size 3  10550E00	 8 terminals	number of holes acc. to order	acc. to order	acc. to order	8118/231-899	0.612
Ex e version size 1  01652E00	  3 terminals + 1 fuse	4 x M20 x 1.5	2 x M20 x 1.5	2 x M20 x 1.5	8118/113-303	0.330
Ex e version size 2  01650E00	Number of terminals and fuses acc. to order	number of holes acc. to order	--	--	8118/123- .99	
Note Standard: cable glands, Series 8161 Option: metal cable glands with brass plate A non-standard arrangement is possible when using cable glands of the Series 8161 as well as when using cable glands with strain relief. Cable glands and stopping plugs are enclosed separately. The fuse must be ordered separately.						

E3

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Explosion Protection

Global (IECEX)

Versions

Type

Gas and dust

junction box without miniature fuse

8118/.11

8118/.21

8118/.31

IECEX PTB 06.0026

Ex e Ex e IIC T6 ... T4 Gb

Ex i Ex ia [ia Ga] ib IIA, IIB, IIC T6 ... T5 Gb

Ex tb IIC T80°C ... T130°C Db

junction box with miniature fuse

8118/113

8118/123

IECEX PTB 06.0026

Ex em II T *

* depending on miniature fuse used

Ex tD A21 IP66 T80°C, T95°C, T130°C

Europe (ATEX)

Versions

Type

Gas and dust

junction box without miniature fuse

8118/.11

8118/.21

8118/.31

PTB 99 ATEX 3103

Ex e Ex II 2 G Ex e II T6, T5, T4

Ex i Ex II 2 G Ex ia/ib IIA, IIB, IIC T6, T5

Ex II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C

junction box with miniature fuse

8118/113

8118/123

PTB 99 ATEX 3103

Ex II 2 G Ex em II T *

* depending on miniature fuse used

Ex II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C

Certifications and certificates

Certificates

IECEX, ATEX, Brazil (INMETRO), China (China-Ex), India (PESO), Kazakhstan (GOST K), Korea (KCs), Russia (GOST R), Ukraine (TR)

Technical Data

Electrical data

Versions

Type

Rated operational voltage

junction box without miniature fuse

8118/.11

8118/.21

8118/.31

550 V

750 V

750 V

junction box with miniature fuse

8118/113

8118/123

250 or 500 V ,
depending on miniature fuse used

Connection Terminals

Current carrying
capacity at conductor
cross-section of

max. 24 A
4 mm²

max. 32 A
6 mm²

max. 44 A
10 mm²

max. 24 A
4 mm²

max. 32 A
6 mm²

Max. number of miniature
fuses

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1 x 8560

2 x 8560

Ambient conditions

Ambient temperature

Ex e: - 20 ... + 55 °C
- 50 ... + 55 °C with special cable glands

Ex i: - 20 ... + 75 °C
- 50 ... + 75 °C with special cable glands

Mechanical data

Degree of protection

IP66

Material

Enclosure

glass fibre reinforced polyester resin, dark grey similar to RAL 7012, impact resistance > 7 J, flame retardant acc. to IEC/EN 60695, UL 94, ASTM D635

Seal

Polyurethane, foamed

Cover lock

with captive M4 stainless steel combo head screws or

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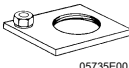
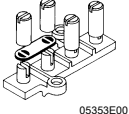
Technical Data

Mounting / Installation

Versions		junction box without miniature fuse			junction box with miniature fuse	
Type		8118/.11	8118/.21	8118/.31	8118/113	8118/123
Cable gland	Standard	Cable glands, series 8161 and stopping plugs, series 8290 are enclosed separately.			Cable glands, series 8161 and stopping plugs, series 8290 are enclosed separately.	
		3 x M20 4 x M20	6 x M20 4 x M25 6 x M25	8 x M25 6 x M32	--	--
Special version		Holes according to order. Metal cable glands with brass plates or cable entry glands are possible.			Holes according to order. Metal cable glands with brass plates or cable entry glands are possible.	
Connection Terminals						
Type of terminals		mantle terminals	mantle terminals	mantle terminals	mantle terminals	mantle terminals
Max. number		4 or 5	5 or 8	8	3 when using 1 miniature fuse	7 when using 1 miniature fuse, 6 when using 2 miniature fuses
Max. conductor cross-section		4 mm ² solid	6 mm ² solid	10 mm ² solid	4 mm ² solid	6 mm ² solid

E3

Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Brass plate with thread	 05735E00	for earth continuity when using metal glands; threads are cut acc. to order		
		for cable glands can be installed into enclosure		
		Size 1 Size 2 Size 3		
		1 x M20 x 1.5 Side C / D Side C / D Side C / D	133208	0.030
		1 x M25 x 1.5 1 x M32 x 1.5 2 x M20 x 1.5	133182	0.060
		2 x M25 x 1.5 Side C / D Side C / D	133198	0.080
Cross connector	 05353E00	8118/.1.	133348	0.002
		8118/.2.	133366	0.003
		8118/.3.	133385	0.005
		for bridging 2 side by side mantle terminals		

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Accessories and Spare Parts

Designation	Figure	Description	Order number	Weight kg
Fuse	 05736E00	8560/51, 250 V UC	Packaging units	
		I _N [A]	[pieces]	
		0.032	5	8560/51-4021 0.210
		0.05	5	8560/51-4031 0.210
		0.063	5	8560/51-4041 0.210
		0.08	5	8560/51-4051 0.210
		0.1	5	8560/51-4061 0.210
		0.125	5	8560/51-4071 0.210
		0.16	5	8560/51-4081 0.210
		0.2	5	8560/51-4091 0.210
		0.25	5	8560/51-4101 0.210
		0.315	5	8560/51-4111 0.210
		0.4	5	8560/51-4131 0.210
		0.5	5	8560/51-4141 0.210
		0.63	5	8560/51-4151 0.210
		0.8	5	8560/51-4171 0.210
		1.0	5	8560/51-4181 0.210
		1.25	5	8560/51-4191 0.210
		2.0	5	8560/51-4222 0.210
		4.0	5	8560/51-4252 0.210
		8560/61, 500 V UC	Packaging units	
		I _N [A]	[pieces]	
		0.08	5	8560/61-4051 0.210
		0.1	5	8560/61-4061 0.210
		0.125	5	8560/61-4071 0.210
		0.2	5	8560/61-4091 0.210
		0.25	5	8560/61-4101 0.210
		0.315	5	8560/61-4111 0.210
		0.4	5	8560/61-4131 0.210
		0.5	5	8560/61-4141 0.210

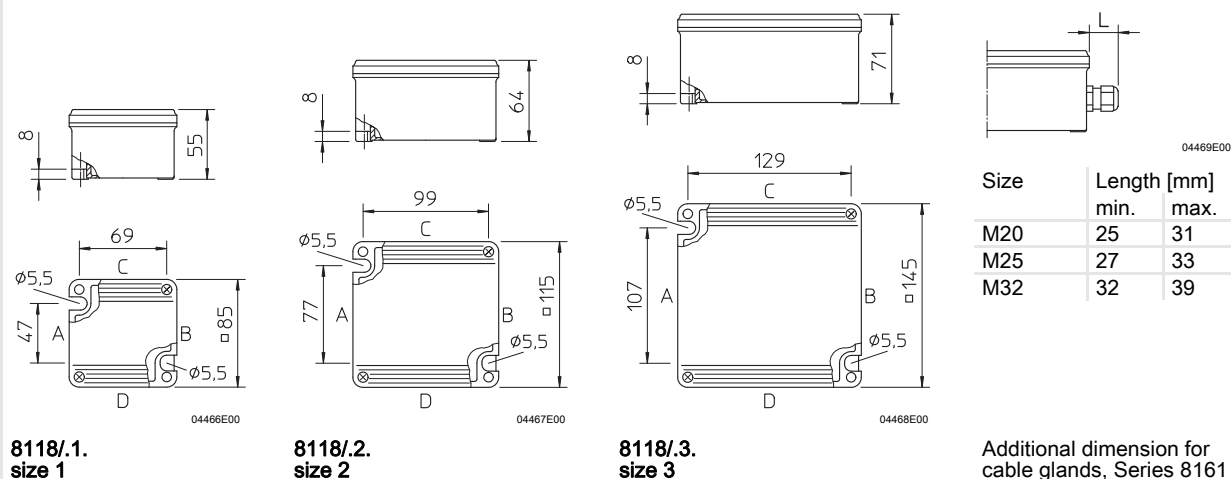
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



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.