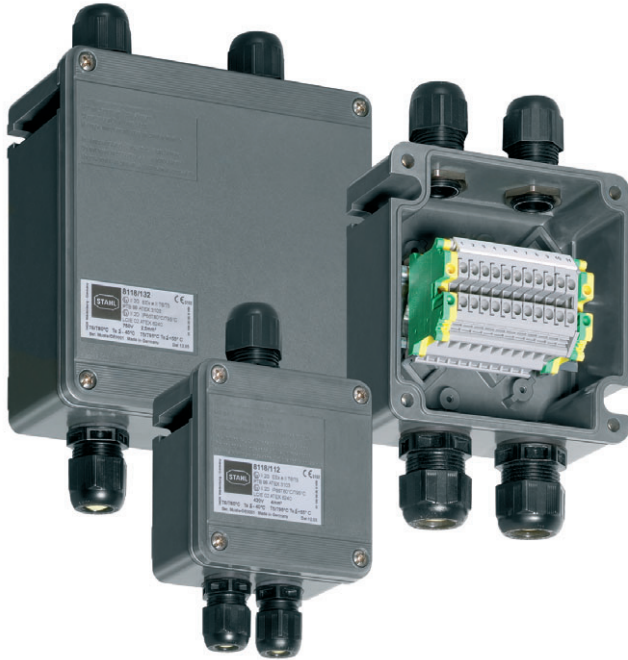


## Terminal Boxes Series 8118

STAHL



- > Enclosures in shock-resistant glass-fibre reinforced polyester resin
- > 3 sizes available
- > Terminals and cable glands fitted to order
- > Degree of protection IP66

E3

www.stahl.de



08473E00

Terminal boxes Series 8118 in shock-resistant glass-fibre reinforced polyester resin can be equipped with different terminal blocks (e.g. screw terminals, terminals without screws, cutting terminals). Versions with or without device fuses are available. The terminals as well as cable glands are mounted according to customer's specification. Beside cable glands in moulded materials, versions in metal are also available. They are screwed into the brass plates and integrated with these plates into the earthing system of the enclosure. Blue terminal boxes with blue cable glands and blue terminals with rated cross-section of 4 mm<sup>2</sup> are available for Ex i circuits.




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

WebCode 8118B

# Terminal Boxes

## Series 8118

Selection Table

Version		Device fuse	Mounting rail	max. number of terminal blocks (rated cross-section 2.5 / 4 mm <sup>2</sup> )	PE / PA terminals (rated cross-section 2.5 / 4 mm <sup>2</sup> )	Order number	Weight
Standard terminal boxes 8118/.12  <small>01588E00</small>	Ex e	without	TS 15	5	2	<b>8118/112-0</b>	0.280
	Ex i	without	TS 15	5	2	<b>8118/212-0</b>	0.280
	Ex e	with	TS 15	5	2	<b>8118/114-099</b>	0.300
Standard terminal boxes 8118/.22  <small>01663E00</small>	Ex e	without	TS 15	11	2	<b>8118/122-0</b>	0.490
			TS 35	13	2	<b>8118/122-1</b>	0.510
	Ex i	without	TS 15	11	2	<b>8118/222-0</b>	0.490
			TS 35	13	2	<b>8118/222-1</b>	0.510
Ex e	with	TS 15	13	2	<b>8118/124-099</b>	0.520	
Standard terminal boxes 8118/.32  <small>01662E00</small>	Ex e	without	TS 15	16	2	<b>8118/132-0</b>	0.700
			TS 35	18	2	<b>8118/132-1</b>	0.730
	Ex i	without	TS 15	16	2	<b>8118/232-0</b>	0.700
			TS 35	18	2	<b>8118/232-1</b>	0.730
	Ex e	with	TS 15	18	2	<b>8118/134-099</b>	0.730

**Note:** The max. number of terminals refers to the terminals MXK4 for TS 15 and UK3 for TS 35. In addition to the terminal blocks the 8118/.4 version is equipped with Series 8560 device fuses. The fuse takes up the space of 3 terminals.

**State with order:** Number and size of the terminal blocks and cable glands as well as number, rated operational current and rated operational voltage of the device fuses.  
The device fuse must be ordered separately (specify with order)

**Note:** All terminal boxes can be delivered with a diagonally mounted terminal rail. Cable glands can then be mounted on all sides.

### Explosion Protection

#### Marking

##### IECEX

Gas explosion protection  
Dust explosion protection

Ex e: Ex em II T6, T5, T4  
Ex i: Ex ia/ib IIA, IIB, IIC T6, T5  
Ex tD A21 IP66 T80°C, T95°C, T130°C

##### Europe (ATEX)

Gas explosion protection

Terminal boxes 8118/..2 without device fuse

Ex e Ⓢ II 2 G Ex em II T6, T5, T4  
Ex i Ⓢ II 2 G Ex ia/ib IIA, IIB, IIC T6, T5

Terminal boxes 8118/..4 with equipment fuse

Ex e Ⓢ II 2 G Ex em II T. <sup>1)</sup>  
<sup>1)</sup> Fuse            ≤ 2 A            T6  
                         > 2 A to ≤ 5 A    T5  
                         ≤ 6.3 A            T4

Dust explosion protection

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

#### Certificates

##### IECEX

IECEX PTB 06.0026

##### Europe (ATEX)

PTB 99 ATEX 3103

##### Other certificates

Brazil (UL do Brasil), China (CQST Ex), India (PESO), Kazakhstan (JSC), Korea (KGS), Russia (CTB), Ukraine (ISCVE), ship approval (GL)

# Terminal Boxes

## Series 8118



### Technical Data

#### Electrical data

Rated operational voltage	Terminal boxes 8118/..2 without equipment fuse max. 1100 V AC / DC Depending on the terminals used	Terminal boxes 8118/..4 with equipment fuse max. 500 V AC / DC Depending on the terminals used	
Current reduction of the terminals	Depending on the number of terminals in Ex e enclosure		
	Cur- rent		
	Max. number of terminals with conductor cross-section ...		
	8118/112 or 8118/114	8118/122 or 8118/124	8118/132 or 8118/134
[A]	1.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> 4 mm <sup>2</sup>	1.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> 4 mm <sup>2</sup>	1.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> 4 mm <sup>2</sup>
3	8	13	18
6	6	13	18
10	6	11	16
16	3	7	9
20	3	3	3
25	4	4	4
Note	<sup>1)</sup> Any number of terminals (control terminals) up to max. possible number  In order to maintain the required temperature class, the maximum permissible power dissipation in the enclosure must not be exceeded. The power dissipation depends on the current load of the built-in terminals and cables. For the temperature class T6, the values in the table above must be observed for the enclosures Series 8118. The values in the table are applicable to the nominal load factor 1; according to IEC 60439, other nominal load factors or diversity factors must not be taken into account. Mixed equipment of terminals with different cross-sections and for different currents is permitted.		

#### Ambient conditions

Ambient temperature	- 50 ... + 55 °C
---------------------	------------------

#### Mechanical data

Degree of protection	IP66
Enclosure	Polyester resin, glass-fibre reinforced, dark grey, similar to RAL 7012, impact strength ≥ 7 J, flame resistant according to IEC/EN 60695, UL 94, ASTM D635
Sealing gasket	Polyurethane foam
Cover fixing	4 x M4 cheese-head screw, stainless steel

#### Mounting / Installation

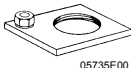

Cable entry	Max. number of cable glands, Series 8161, to be mounted			
	Enclosure size/side			
	8118/.1.	8118/.2.	8118/.3.	
	09101E00	09102E00	09125E00	
Type	Size	Side C / D	Side C / D	Side C / D
	M16 x 1.5	2	3	5
	M20 x 1.5	1	3	4
	M25 x 1.5	--	2	3
	M32 x 1.5	--	1	2
Note:	The following glands are used: ⌀ for Ex e enclosures the cable glands 8161/5 (black), ⌀ for Ex i enclosures the cable glands 8161/6 (blue). The enclosures have through drillings, the cable entries are secured with locknuts. Unused openings must be sealed with certified stopping plugs. Due to the position of the mounting rail, the cable glands can only be mounted at the sides C and D.			

E3

## Terminal Boxes

### Series 8118

#### Accessories and Spare Parts

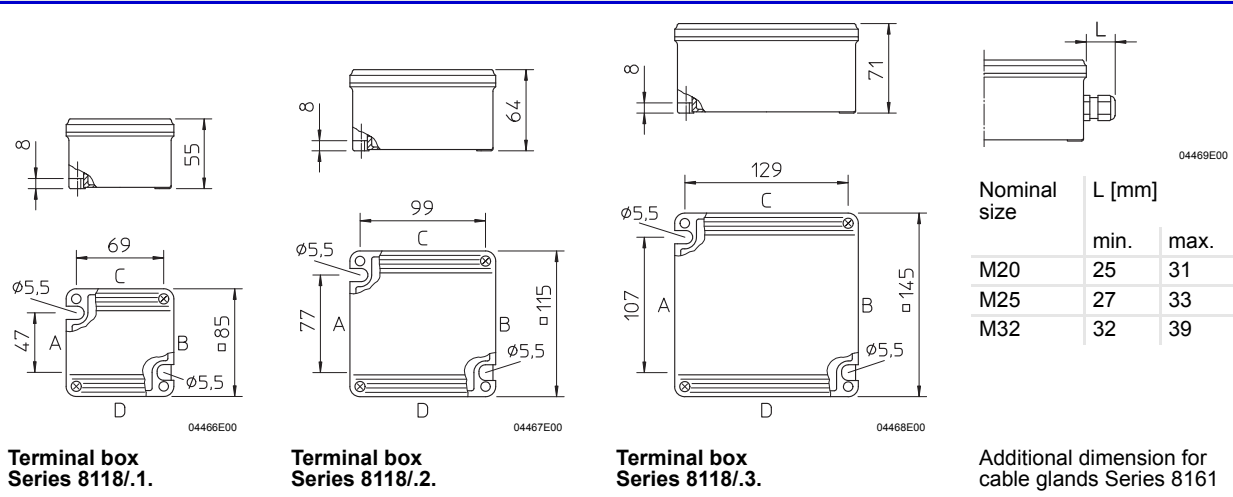
Designation	Illustration	Description	Order number	Weight kg			
Brass plate with thread		for earth continuity when metal cable glands are used					
		for cable glands	can be fitted into enclosure				
			Size 1	Size 2	Size 3		
		1 x M20 x 1.5	Side C / D	Side C / D	Side C / D	<b>133208</b>	0.030
		1 x M25 x 1.5 1 x M32 x 1.5 2 x M20 x 1.5		Side C / D	Side C / D	<b>133182</b>	0.060
		2 x M25 x 1.5	Side C / D	Side C / D	<b>133198</b>	0.080	
		2 x M32 x 1.5		Side C / D	<b>133202</b>	0.140	
Fuse		8560/51, 250 V UC					
		$I_N$ [A]	Packaging units [pieces]				
		0.032	5	<b>8560/51-4021</b>	0.210		
		0.05	5	<b>8560/51-4031</b>	0.210		
		0.063	5	<b>8560/51-4041</b>	0.210		
		0.08	5	<b>8560/51-4051</b>	0.210		
		0.1	5	<b>8560/51-4061</b>	0.210		
		0.125	5	<b>8560/51-4071</b>	0.210		
		0.16	5	<b>8560/51-4081</b>	0.210		
		0.2	5	<b>8560/51-4091</b>	0.210		
		0.25	5	<b>8560/51-4101</b>	0.210		
		0.315	5	<b>8560/51-4111</b>	0.210		
		0.4	5	<b>8560/51-4131</b>	0.210		
		0.5	5	<b>8560/51-4141</b>	0.100		
		0.63	5	<b>8560/51-4151</b>	0.210		
		0.8	5	<b>8560/51-4171</b>	0.210		
		1.0	5	<b>8560/51-4181</b>	0.210		
		1.25	5	<b>8560/51-4191</b>	0.210		
		2.0	5	<b>8560/51-4222</b>	0.210		
		4.0	5	<b>8560/51-4252</b>	0.210		
		8560/61, 500 V UC					
		$I_N$ [A]	Packaging units [pieces]				
		0.08	5	<b>8560/61-4051</b>	0.210		
		0.1	5	<b>8560/61-4061</b>	0.210		
		0.125	5	<b>8560/61-4071</b>	0.210		
		0.2	5	<b>8560/61-4091</b>	0.210		
		0.25	5	<b>8560/61-4101</b>	0.210		
0.315	5	<b>8560/61-4111</b>	0.210				
0.4	5	<b>8560/61-4131</b>	0.210				
0.5	5	<b>8560/61-4141</b>	0.210				

# Terminal Boxes

## Series 8118



### 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.

E3