

# Cable End Boxes

## Series 8146



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01367E00

- > Enclosures in glass fibre reinforced polyester resin
- > For terminals from 35 ... 185 mm<sup>2</sup>
- > Rated operational current up to max. 400 A depending on enclosure version and size
- > Degree of protection IP55

E3



The cable end boxes of the Series 8146 can be fitted with terminals up to a size of 185 mm<sup>2</sup>. The entry and exit cables are led through cable entry plates into the enclosure where they are fixed with strain relief clamps

	ATEX / IECEx							NEC 505			NEC 506				NEC 500						
	0	1	2	20	21	22		Class I							Class I		Class II		Class III		
Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2	
8146/1: For use in	x	x			x	x	8146/1: For use in		x	x				8146/1: For use in		x		x	x		
8146/2: For use in	x	x			x	x	8146/2: For use in		*)	*)				8146/2: For use in		x		x	x		

\*)Approval not required

### Explosion Protection

#### Global (IECEx)

Gas and dust

IECEx PTB 06.0046

WebCode 8146B

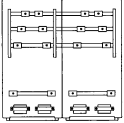
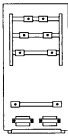
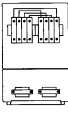
# Cable End Boxes

## Series 8146

### Explosion Protection

	Ex d e ia/ib [ja Ga] mb IIA, IIB, IIC T6, T5, T4 Gb Ex tb IIIA, IIIB, IIIC, T80°C, T95°C, T130°C Db IP66
<b>Europe (ATEX)</b> Gas and dust	PTB 01 ATEX 1016 ⊕ II 2 G Ex d e ia/ib [ja Ga] mb IIA, IIB, IIC T6, T5, T4 Gb ⊕ II 2 D Ex tb IIIA, IIIB, IIIC T80°C, T95°C, T130°C Db IP66
<b>Certifications and certificates</b> Certificates	IECEX, ATEX, China (China-Ex), Brazil (INMETRO), Canada (CSA), Kazakhstan (GOST K), Korea (KCs), Russia (GOST R), Taiwan (ITRI), Ukraine (TR), Belarus (operating authorisation), USA (UL)
Ship approval	GL, RS

### Selection Table

Version	Terminals	Rated current depending on the temperature class	PE terminals (size / number)	Arrangement	Order number	Weight kg
Cable End Boxes in Polyester Resin Series 8146	12 stud terminals 185 mm <sup>2</sup>	400 A / T5 315 A / T6	185 mm <sup>2</sup> (4 pieces)	 07946E00	<b>8146/1000-C923</b>	28.700
	6 stud terminals 185 mm <sup>2</sup>	400 A / T5 315 A / T6	185 mm <sup>2</sup> (2 pieces)	 07945E00	<b>8146/1093-C924</b>	14.000
	6 line-up terminals 70 mm <sup>2</sup>	160 A / T5 125 A / T6	70 mm <sup>2</sup> (2 pieces)	 07944E00	<b>8146/1000-C958</b>	9.500




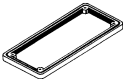
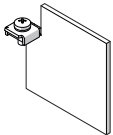
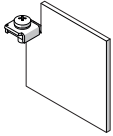
### Technical Data

Electrical data			
Version	8146/1000-C923	8146/1093-C924	8146/1000-C958
Rated operational voltage	max. 750 V AC	max. 750 V AC	max. 750 V AC
Rated current depending on the temperature class	315 A / T6400 A / T5	315 A / T6400 A / T5	125 A / T6160 A / T5
Ambient conditions			
Ambient temperature	-40 ... +55 °C		
Mechanical data			
Version	8146/1000-C923	8146/1093-C924	8146/1000-C958
Type of protection			
Terminals	12 stud terminals M12 185 mm <sup>2</sup> ; 4 PE stud terminals 185 mm <sup>2</sup>	6 stud terminals M12 185 mm <sup>2</sup> ; 2 PE stud terminals 185 mm <sup>2</sup>	8 line-up terminals 70 mm <sup>2</sup>
Dimensions	696,3 x 682,2 x 150 mm	696,3 x 340,5 x 150 mm	526,5 x 340,5 x 150 mm
Mounting / Installation			
Version	8146/1000-C923	8146/1093-C924	8146/1000-C958
Cable entry	brass plate with 2 x M75 Please order screw connection separately, see accessories	brass plate with 2 x M75 Please order screw connection separately, see accessories	brass plate with 2 x M75 Please order screw connection separately, see accessories
Internal wiring	Copper bar 20 x 10 mm (E-Cu F30)	Copper bar 20 x 10 mm (E-Cu F30)	Cable NSGAFöu 70; 70mm <sup>2</sup>

# Cable End Boxes Series 8146



## Accessories and Spare Parts

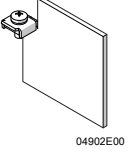
Designation	Figure	Description	Art. no.	Weight kg	
Flange	 05742E00	Size 1 2.8 mm thick	<b>135978</b>	0.077	
		Size 1 5.8 mm thick	<b>136032</b>	0.106	
		can be mounted on enclosure	Enclosure side		
		8146/.051 /.052 C / D			
		8146/.061 /.062 A / B / C / D			
		8146/.071 /.072 A / B / C / D			
		8146/.S71 C / D			
		8146/.081 /.082 A / B / C / D			
		8146/.091 /.092 A / B / C / D			
	 05741E00	Size 2 2.8 mm thick	<b>136045</b>	0.210	
		Size 2 5.8 mm thick	<b>136083</b>	0.317	
			can be mounted on enclosure	Enclosure side	
		8146/.073 /.075 C / D			
		8146/.S73 C / D			
		8146/.083 /.085 /.086 A / B / C / D			
	8146/.093 /.095 A / B / C / D				
 05743E00	Size 3 2.8 mm thick	<b>136199</b>	0.115		
	Size 3 5.8 mm thick	<b>136237</b>	0.166		
		can be mounted on enclosure	Enclosure side		
		8146/.073 /.075 A / B			
Frames	 04901E00	Size 0 68 x 68 mm	<b>136012</b>	0.014	
		Size 1 68 x 128 mm	<b>135974</b>	0.020	
		Size 2 126 x 266 mm	<b>136031</b>	0.041	
		Size 3 126 x 126 mm	<b>136235</b>	0.027	
Brass plate 2 mm for flanges <sup>1) 2)</sup>	 04902E00	for flange size 1 (68 x 128 mm)	<b>136888</b>	0.040	
		for flange size 2 (126 x 266 mm)	<b>136960</b>	0.220	
		for flange size 3 (126 x 126 mm)	<b>136963</b>	0.120	
Brass plate 3 mm for flanges <sup>1)</sup>	 04902E00	for flange size 1 (68 x 128 mm)	<b>136201</b>	0.200	
		for flange size 2 (126 x 266 mm)	<b>136568</b>	0.100	
		for flange size 3 (126 x 126 mm)	<b>136726</b>	0.320	

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#### Accessories and Spare Parts

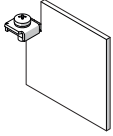


Designation	Figure	Description	Art. no.	Weight kg	
Brass plate 2 mm for enclosure <sup>1) 2)</sup>		for enclosure	Enclosure si- des		
		8146/.031 8146/.041	C / D A / B	<b>136940</b>	0.040
		8146/.041	C / D	<b>136945</b>	0.060
		8146/.051 /.052 8146/.S71	A / B A / B	<b>136914</b>	0.050
		8146/.051 /.052 8146/.061 /.062 8146/.071 /.072	C / D A / B A / B	<b>136921</b>	0.070
		8146/.061 /.062	C / D	<b>136933</b>	0.080
		8146/.071 /.072 8146/.081 /.082 8146/.091 /.092	C / D A / B C1 / D1	<b>136927</b>	0.140
		8146/.073	A / B	<b>136975</b>	0.140
		8146/.073 8146/.083 8146/.093	C / D A / B C1 / D1	<b>136977</b>	0.270
		8146/.S71 8146/.081 /.082 8146/.091 /.092	C / D C / D A / B	<b>136950</b>	0.160
		8146/.S73	A / B	<b>136973</b>	0.100
		8146/.S73 8146/.083 8146/.093	C / D C / D A / B	<b>136979</b>	0.310
		8146/.091 /.092	C2 / D2	<b>136957</b>	0.160
		8146/.093	C2 / D2	<b>136982</b>	0.310

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### Accessories and Spare Parts


Designation	Figure	Description	Art. no.	Weight kg			
Brass plate 3 mm for enclosure <sup>1)</sup>	 04902E00	for enclosure	Enclosure si- des				
		8146/.031 8146/.041	C / D A / B	<b>136395</b>	0.100		
		8146/.041	C / D	<b>136403</b>	0.160		
		8146/.041	C / D	<b>136635</b>	0.150		
		8146/.051 / .052 8146/.S71	A / B A / B	<b>136240</b>	0.140		
		8146/.051 / .052 8146/.061 / .062 8146/.071 / .072	C / D A / B A / B	<b>136283</b>	0.200		
		8146/.051 / .052 8146/.061 / .062 8146/.071 / .072	C / D A / B A / B	<b>136430</b>	0.560		
		8146/.061 / .062	C / D	<b>136374</b>	0.200		
		8146/.071 / .072 8146/.081 / .082 8146/.091 / .092	C / D A / B C 1 / D1	<b>136313</b>	0.400		
		8146/.071 / .072 8146/.081 / .082	C / D A / B	<b>136451</b>	0.560		
		8146/.073	A / B	<b>136616</b>	0.410		
		8146/.073	C / D	<b>136631</b>	0.770		
		8146/.073 8146/.083 8146/.093	C / D A / B C1 / D1	<b>136621</b>	0.810		
		8146/.S71 8146/.081 / .082 8146/.091 / .092	C / D C / D A / B	<b>136544</b>	0.460		
		8146/.S73	A / B	<b>136611</b>	0.265		
		8146/.S73 8146/.083 8146/.093	C / D C / D A / B	<b>136626</b>	0.880		
		Serrated lock washer	 09717E00	for M25 1 pcs.		<b>110706</b>	0.009
				for M32 1 pcs.		<b>110707</b>	0.007
				for M40 1 pcs.		<b>110708</b>	0.021
				for M50 1 pcs.		<b>110709</b>	0.040
for M63 1 pcs.				<b>110710</b>	0.060		
Adaptor	 16546E 00	for reduction to thread size M63		<b>222541</b>	0.200		

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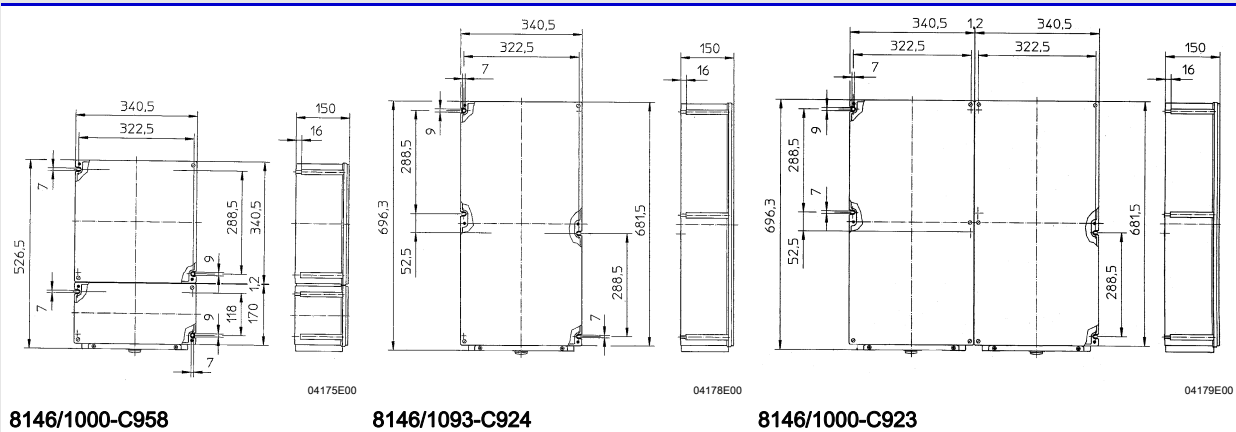
### Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Cable gland	 14977E00	Cable gland M75 clamping range 61.1 to 68.0 mm	<b>138781</b>	0.410
		Cable gland M75 clamping range 54.0 to 62.0 mm	<b>138782</b>	0.420
		Cable gland M63 clamping range 47.2 to 56.0 mm for use with adaptor 222541	<b>138779</b>	0.350
		Cable gland M63 clamping range 41.5 to 50.0 mm for use with adaptor 222541	<b>138780</b>	0.370

1) For earthing metal gland parts when used in moulded plastic enclosures and plastic flanges

- 2) - If the connecting cable is equipped with an armour which is larger than 6 mm<sup>2</sup> and which is used as earthing conductor, a brass plate with a thickness of 3 mm must be used.  
- Due to the higher strain on the enclosure wall, the 3 mm brass plate has also to be used for large bell mounted glands.

### 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.