

Ex e Enclosures in Moulded Material

Series 8146



www.stahl.de



- > Enclosures in glass-fibre reinforced polyester resin
- > Secure protection of built-in devices
- > Corrosion resistant
- > Modular enclosure dimensions
- > Low weight
- > Minimal maintenance required



00119E00

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

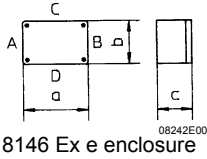
E9

WebCode 8146E

Ex e Enclosures in Moulded Material

Series 8146

Selection Table

Version	Dimensions [mm]			Order number	Weight kg		
	a	b	c				
Enclosure  8146 Ex e enclosure	112.5	112.5	91	8146/5031	0.470		
	170	112.5	91	8146/5041	0.580		
		170	91	8146/5051	0.860		
	227	170	131	8146/5052	1.100		
			91	8146/5061	1.150		
	340.5	170	131	8146/5062	1.400		
			91	8146/5S71	1.600		
				8146/5071	1.600		
			131	8146/5072	1.950		
			150	8146/6B73	1.800		
				8146/5S73	1.800		
				8146/5073	1.800		
			190	8146/6B75	2.100		
				8146/5075	2.300		
				340.5	91	8146/5081	2.950
					131	8146/5082	3.450
					150	8146/5083	3.400
			171	8146/5084	3.700		
			190	8146/5085	3.900		
			230	8146/5086	4.200		
	681.5	340.5	91	8146/5091	5.600		
			131	8146/5092	6.300		
			150	8146/5093	6.200		
190			8146/5095	6.900			

Ex e Enclosures in Moulded Material

Series 8146



Explosion Protection

Device version	Empty enclosure
Marking	
IECEX	
Gas explosion protection	Ex eII
Dust explosion protection	Ex tD A21 IP66
Europe (ATEX)	
Gas explosion protection	⊕ II 2G Ex eII
Dust explosion protection	⊕ II 2D Ex tD A21 IP66
Certificates	
IECEX	IECEX PTB 06.0044 U
Europe (ATEX)	
Gas explosion protection	PTB 01 ATEX 1015 U
Dust explosion protection	PTB 01 ATEX 1015 U

Explosion Protection

Device version	Control panel
Marking	
IECEX	
Gas explosion protection	Ex dem ia/ib [ia/ib] IIA, IIB, IIC, T6, T5, T4
Dust explosion protection	Ex tD A21 IP66 T80°C, T95°C, T130°C
Europe (ATEX)	
Gas explosion protection	⊕ II 2 G Ex de ia/ib [ia/ib] mq IIA, IIB, IIC T6, T5, T4
Dust explosion protection	⊕ II 2 D Ex tD A21 IP6X T80°C, T95°C, T130°C
Certificates	
IECEX	IECEX PTB 06.0090
Europe (ATEX)	
Gas explosion protection	PTB 01 ATEX 1024
Dust explosion protection	PTB 01 ATEX 1024
Other certificates	Canada (CSA), USA (UL), Brazil (UL do Brasil), Russia (CTB), Kazakhstan (JSC)

Technical Data

Electrical data	
Rated voltage	max. 1100 V (depending on the built-in devices used) depending on the terminal type and the explosion protected components used
Rated current	max. 630 A depending on the terminal type and the explosion protected components used
Ambient conditions	
Ambient temperature	- 40 ... + 55 °C
Mechanical data	
Degree of protection	IP 66 (depending on the built-in devices used)
Material	
Enclosure	Glass-fibre reinforced polyester resin, dark grey, similar to RAL 7024 Impact resistance ≥ 7 J Surface resistance $\leq 10^9 \Omega$ Flame resistant according to IEC/EN 60695, UL 94, VO ASTM D635 Silicone-free
Gasket	Polyurethane, foam
Rated cross-section	max. 240 mm ² depending on the terminal type and the explosion protected components used
Cover fixing	
Standard	with positively retained M6 stainless-steel combo head screws
Option	with cover hinge
Enclosure version	Standard: without flange As an alternative with mounted flanges
Cable entry	according to order, specify cable entry side, see section E10 in the catalogue

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.

E9