

8146/-085 Art. No. 227120



- Can be used as a terminal or control box
- Corrosion-resistant, lightweight and low-maintenance because it is made of glass fibre reinforced polyester resin
- Can be combined to form a large unit thanks to the modular design of the enclosures

MY R. STAHL 8146E



The R. STAHL Series 8146 Ex e enclosure offers reliable protection for the components installed in it for use as a terminal or control box. It is made of glass fibre reinforced polyester resin and is therefore robust, corrosion-resistant and needs very little maintenance. Thanks to the module structure, they can be combined with each other to form larger units.

### Technical Data

#### Explosion Protection

Area of application	European Union (ATEX) IECEX
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0044U
IECEX gas explosion protection	Ex eb IIC Gb
IECEX dust certificate	IECEX PTB 06.0044U
IECEX dust explosion protection	Ex tb IIIC Db
ATEX gas certificate	PTB 01 ATEX 1015 U
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC Gb
ATEX dust certificate	PTB 01 ATEX 1015 U
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC Db
Certificates	ATEX (PTB), IECEX (PTB)
Ship approval	DNV
Notes	Product label may vary. Series devices are labelled with ATEX and IECEX.

#### Ambient Conditions

Ambient temperature	-20 °C ... +60 °C
Ambient temperature	-4 °F ... +140 °F
Storage temperature	The storage temperature corresponds to the ambient temperature

#### Mechanical Data

Degree of protection (IP) (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey, similar to RAL 7024
Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	Yes
Cover fixing type	With captive screws

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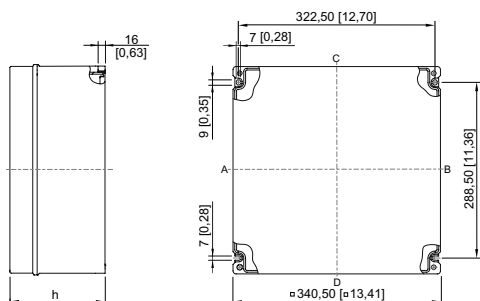
**Mechanical Data**

Cover thickness	2.8 mm
Cover thickness in inches	0.11 in
Wall thickness	2.8 mm
Wall thickness in inches	0.11 in
Width	340.5 mm
Width, inches	13.406 in
Height	340.5 mm
Height in inches	13.4060 in
Depth	190 mm
Depth in inches	7.48 in
Impact strength (IEC 60079)	7 J
Impact strength (IEC 62262)	IK09
Surface resistance EN60079-0	10 <sup>9</sup> Ω
Packaging unit	1
Weight	2.97 kg
Weight	6.55 lb

**Mounting / Installation**

Tightening torque of cover screw 1	4.5 N · m
Tightening torque of cover screw 1 lbf in	39.83 lbf in

**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**



- 8146/.08.
- 8146/.081: h = 91 mm [3.58 inch]
- 8146/.082: h = 131 mm [5.16 inch]
- 8146/.083: h = 150 mm [5.91 inch]
- 8146/.084: h = 171 mm [6.73 inch]
- 8146/.085: h = 190 mm [7.48 inch]
- 8146/.086: h = 230 mm [9.06 inch]

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.