

8146/-083 Art. No. 227118



- 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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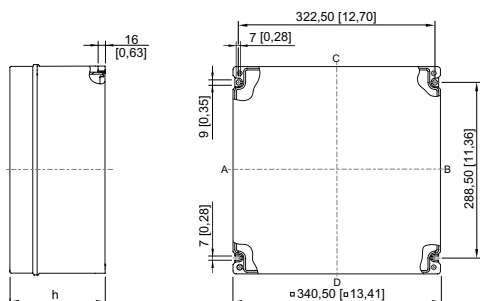
Mechanical Data

| | |
|------------------------------|-------------------|
| 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 | 150 mm |
| Depth in inches | 5.906 in |
| Impact strength (IEC 60079) | 7 J |
| Impact strength (IEC 62262) | IK09 |
| Surface resistance EN60079-0 | 10 ⁹ Ω |
| Packaging unit | 1 |
| Weight | 2.65 kg |
| Weight | 5.84 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.