

8146/5082 Art. No. 225811



- Practical Ex e control boxes made of glass fibre reinforced polyester resin
- Can be equipped as required with control devices, indicator lamps, illuminated pushbuttons, control switches, ammeters and voltmeters
- Optional: Flanges, cover hinges, flange enclosures, brass plates, cable glands made of metal

MY R. STAHL 8146F



R. STAHL Series 8146 control boxes are available in eight basic sizes and various enclosure heights; they can be combined to make larger units. They are made of high-quality glass fibre reinforced polyester resin. We equip these with various components according to customer requirements, whereby the following optional accessories are available: Flanges, cover hinges or cable glands made of metal.

Technical Data

Explosion Protection

| | |
|---------------------------------|--|
| Scope of validity | European Union (ATEX) IECEX |
| Application range (zones) | 1, 2, 21, 22 |
| IECEX gas certificate | IECEX PTB 06.0090 |
| IECEX gas explosion protection | Ex eb IIC T6 ... T4 Gb |
| IECEX dust certificate | IECEX PTB 06.0090 |
| IECEX dust explosion protection | Ex tb IIIC T80 °C ... T130 °C Db |
| ATEX gas certificate | PTB 01 ATEX 1024 |
| ATEX gas explosion protection | ⊕ II 2 G Ex eb IIC T6 ... T4 Gb |
| ATEX dust certificate | PTB 01 ATEX 1024 |
| ATEX dust explosion protection | ⊕ II 2 D Ex tb IIIC T80 °C ... T130 °C Db |
| Certificates | ATEX (PTB), Canada (FM), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS), USA (FM) |
| Notes | Product label may vary. Series devices are labelled with ATEX and IECEX. |

Electrical Data

| | |
|------------------------------|---------------------------------------|
| Rated operational voltage AC | 0 ... 1000 V |
| Rated operational current | 0 – 630 A |
| Notes | Depending on the built-in components. |

Ambient Conditions

| | |
|---------------------|--|
| Ambient temperature | -20 °C ... +40 °C (T6) (T80 °C) -20 °C ... +55 °C (T5) (T95 °C) -20 °C ... +70 °C (T4) (T130 °C) |
| Ambient temperature | -4°F ... +104°F (T6) (T80 °C) -4°F ... +131°F (T5) (T95 °C) -4°F ... +158°F (T4) (T130 °C) |

Mechanical Data

| | |
|-------------------------------------|------|
| Degree of protection IP (IEC 60529) | IP66 |
|-------------------------------------|------|

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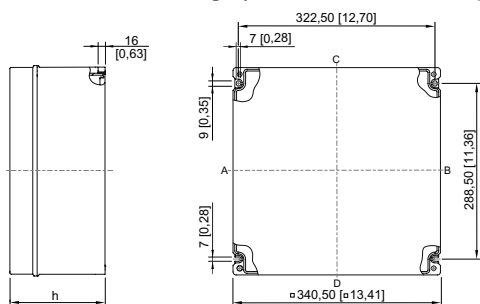
Mechanical Data

| | |
|---------------------------|---|
| Enclosure material | Polyester resin, Glass fibre reinforced |
| Enclosure colour | Dark grey |
| Flammability according to | IEC/EN 60695 UL 94 ASTM D635 |
| Silicone-free | Yes |
| Cover fixing type | With captive screws |
| Cover thickness | 2.8 mm |
| Cover thickness inch | 0.11 in |
| Wall thickness | 2.8 mm |
| Wall thickness, inches | 0.11 in |
| Width | 340.5 mm |
| Width, inches | 13.406 in |
| Height | 340.5 mm |
| Height, inches | 13.4060 in |
| Depth | 131 mm |
| Depth, inches | 5.157 in |
| Weight | 3.45 kg |
| Weight | 7.61 lb |

Components

| | |
|-------------------|----------------|
| Flange and plates | Without flange |
|-------------------|----------------|

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.