

8146/5081 Art. No. 136746



- 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

|                                 |   |
|---------------------------------|---|
| Area of application             | European Union (ATEX)<br>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), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), 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 | -60 °C ... +40 °C (T6) (T80 °C)<br>-60 °C ... +55 °C (T5) (T95 °C)<br>-60 °C ... +70 °C (T4) (T130 °C)    |
| Ambient temperature | -76 °F ... +104 °F (T6) (T80 °C)<br>-76 °F ... +131 °F (T5) (T95 °C)<br>-76 °F ... +158 °F (T4) (T130 °C) |

### Mechanical Data

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

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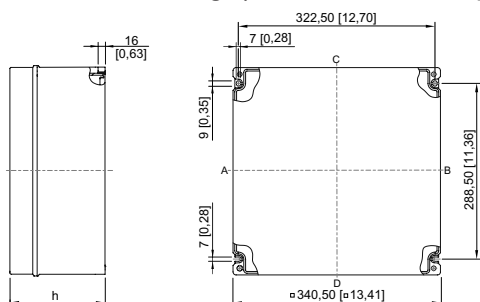
### Mechanical Data

|                           |   |
|---------------------------|---|
| Enclosure material        | Polyester resin, Glass fibre reinforced |
| Enclosure colour          | Dark grey                               |
| Flammability according to | IEC/EN 60695<br>UL 94<br>ASTM D635      |
| Silicone-free             | No                                      |
| Cover fixing type         | With captive screws                     |
| 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                     | 91 mm                                   |
| Depth in inches           | 3.583 in                                |
| Weight                    | 2.95 kg                                 |
| Weight                    | 6.5 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.