

8146/2073 Art. No. 278808



- Wide range of Ex i terminal boxes in various sizes and materials
- Degree of protection IP66
- Customised equipping in accordance with customer specifications
- Enclosures with captive cover screws
- If required, flange on enclosure sides is possible

### MY R. STAHL 8146T



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fiber-reinforced polyester resin, are ideal for use in harsh operating conditions. With eight basic sizes in various heights, they are universally usable. If requested by the customer, they are equipped with series terminals up to 300 mm<sup>2</sup> and, as an option, a flange on several enclosure sides is possible.

## Technical Data

### Explosion Protection

|                           |                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Scope of validity         | NEC<br>CEC                                                                                                                                |
| Application range (Zones) | 1<br>2<br>21<br>22                                                                                                                        |
| Certification NEC         | E177642                                                                                                                                   |
| Certification CEC         | E177642                                                                                                                                   |
| Marking cUL               | Class I, Zone 1 IIC T6<br>Class I, Div. 1, 2, Groups A,B,C,D<br>Class II, Div. 1, 2, Groups E,F,G<br>Class III<br>Enclosure Type 3, 4, 4X |
| Certificates              | ATEX (PTB), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)                                                                         |

### Electrical Data

|                              |            |
|------------------------------|------------|
| Rated operational voltage AC | 0 ... 60 V |
|------------------------------|------------|

### Ambient Conditions

|                        |                    |
|------------------------|--------------------|
| Ambient temperature °C | -50 °C ... +75 °C  |
| Ambient temperature °F | -58 °F ... +167 °F |

### Mechanical Data

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Degree of protection IP (IEC 60529) | IP66                                    |
| Degree of protection (IP) UL        | IP66                                    |
| Enclosure material                  | Polyester resin, Glass fibre reinforced |
| Enclosure color                     | Dark grey                               |
| Flammability according to           | IEC/EN 60695<br>UL 94<br>ASTM D635      |
| Silicone-free                       | No                                      |
| Connection cross-section            | 2.5 mm <sup>2</sup>                     |

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#### Mechanical Data

|                              |           |
|------------------------------|-----------|
| Connection cross-section AWG | AWG14     |
| 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                       | 170 mm    |
| Height, inches               | 6.692 in  |
| Depth                        | 150 mm    |
| Depth, inches                | 5.906 in  |
| Weight                       | 3 kg      |
| Weight                       | 6.61 lb   |

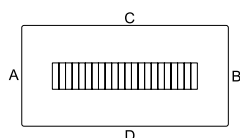
#### Mounting / Installation

|                                           |              |
|-------------------------------------------|--------------|
| Tightening torque of cover screw 1        | 4.5 Nm       |
| Tightening torque of cover screw 1 lbf in | 39.83 lbf in |

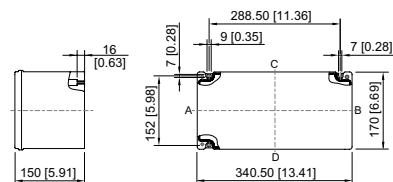
#### Components

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| Flange and plates                 | Without flange                                            |
| Entries installation options/side | Without drilled holes                                     |
| Terminal rail                     | 35 x 301 mm (1x)                                          |
| Terminal rail                     | 1.38 x 11.85" (1x)                                        |
| Type of terminals 1               | 1 x Phoenix UT<br>2-conductor, 2.5 mm <sup>2</sup> , blue |
| PA terminal                       | 1 x Phoenix UT 2.5 mm <sup>2</sup> grey                   |

#### Technical Drawings – Subject to Alterations



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



8146/.073

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.