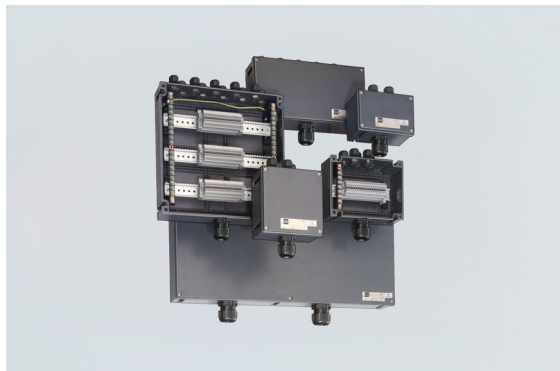


8146/1093 Art. No. 136899



- Versatile Ex e terminal boxes in various sizes and heights, degree of protection IP66
- Can be equipped as per customer requirements
- Enclosure with captive cover screws, flanges can be fitted on enclosure sides if required

### MY R. STAHL 8146A



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

## Technical Data

### Explosion Protection

|                                 |                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Area of application             | European Union (ATEX)<br>IECEX<br>United Kingdom                                                                                         |
| Application range (zones)       | 1, 2, 21, 22                                                                                                                             |
| IECEX gas certificate           | IECEX PTB 06.0046                                                                                                                        |
| IECEX gas explosion protection  | Ex eb IIC T6 ... T4 Gb                                                                                                                   |
| IECEX dust certificate          | IECEX PTB 06.0046                                                                                                                        |
| IECEX dust explosion protection | Ex tb IIIC T80 °C ... T130 °C Db                                                                                                         |
| ATEX gas certificate            | PTB 01 ATEX 1016                                                                                                                         |
| ATEX gas explosion protection   | II 2 G Ex eb IIC T6 ... T4 Gb                                                                                                            |
| ATEX dust certificate           | PTB 01 ATEX 1016                                                                                                                         |
| ATEX dust explosion protection  | II 2 D Ex tb IIIC T80 °C ... T130 °C Db                                                                                                  |
| Certificates                    | ATEX (PTB), Brazil (ULB), Canada / USA (UL), Canada (UL), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL) |
| Declaration of conformity       | ATEX (EUK), China (CCC)                                                                                                                  |
| Explosion protection note       | Product label may vary. Series devices are labelled with ATEX and IECEX.                                                                 |

### Electrical Data

|                              |             |
|------------------------------|-------------|
| Rated operational voltage AC | 0 ... 690 V |
|------------------------------|-------------|

### Ambient Conditions

|                     |                                                                            |
|---------------------|----------------------------------------------------------------------------|
| Ambient temperature | -60 °C ... +40 °C (T6)<br>-60 °C ... +55 °C (T5)<br>-60 °C ... +70 °C (T4) |
| Ambient temperature | -76°F ... +104°F (T6)<br>-76°F ... +131°F (T5)<br>-76°F ... +158°F (T4)    |

### Mechanical Data

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Degree of protection IP (IEC 60529) | IP66                                    |
| Enclosure material                  | Polyester resin, Glass fibre reinforced |

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### Mechanical Data

|                           |                                    |
|---------------------------|------------------------------------|
| Enclosure colour          | Dark grey                          |
| Flammability according to | IEC/EN 60695<br>UL 94<br>ASTM D635 |
| Silicone-free             | No                                 |
| 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                     | 681.5 mm                           |
| Width, inches             | 26.831 in                          |
| Height                    | 340.5 mm                           |
| Height in inches          | 13.4060 in                         |
| Depth                     | 150 mm                             |
| Depth in inches           | 5.906 in                           |
| Weight                    | 7.3 kg                             |
| Weight                    | 16.09 lb                           |

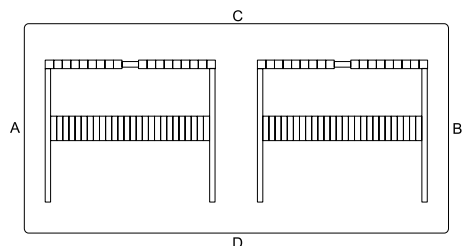
### Mounting / Installation

|                                           |              |
|-------------------------------------------|--------------|
| Tightening torque lbf in                  | 0 lbf-in     |
| Tightening torque of cover screw 1        | 4.5 N · m    |
| Tightening torque of cover screw 1 lbf in | 39.83 lbf in |

### Components

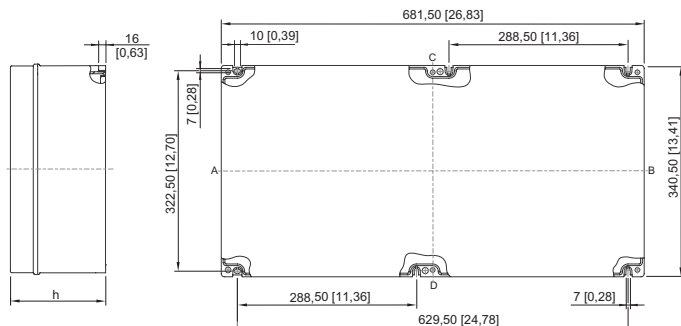
|                                   |                                                         |
|-----------------------------------|---------------------------------------------------------|
| Flange and plates                 | Without flange                                          |
| Entries installation options/side | Without drilled holes                                   |
| Entries                           | None                                                    |
| Terminal rail                     | 35 x 637 mm (1x)                                        |
| Terminal rail                     | 1,38 x 25,08 " (1x)                                     |
| Type of terminals 1               | 1 x Phoenix UT<br>2-conductor, 4 mm <sup>2</sup> , grey |
| Earth rail                        | 18 x 4 mm <sup>2</sup> (2x)                             |

### Technical Drawings – Subject to Alterations



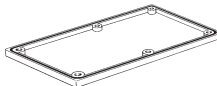
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### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

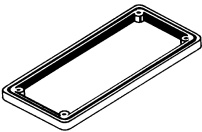


8146/.09.  
 8146/.091: h = 91 mm [3,58 inch]  
 8146/.092: h = 131 mm [5,16 inch]  
 8146/.093: h = 150 mm [5,91 inch]  
 8146/.095: h = 190 mm [7,48 inch]

## Spare Parts

| 2 mm brass plate for enclosure                                                     |                                                                                                                | Art. No. |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------|
|   | For<br>8146/.073 (enclosure sides C/D)<br>8146/.083 (enclosure sides A/B)<br>8146/.093 (enclosure sides C1/D1) | 136977   |
|                                                                                    | For<br>8146/.S73 (enclosure sides C/D)<br>8146/.083 (enclosure sides C/D)<br>8146/.093 (enclosure sides A/B)   | 136979   |
| 2 mm brass plate for flanges                                                       |                                                                                                                | Art. No. |
|  | For flange size 2 (126 x 266 mm)                                                                               | 136960   |
| 3 mm brass plate for enclosure                                                     |                                                                                                                | Art. No. |
|  | For<br>8146/.073 (enclosure sides C/D)<br>8146/.083 (enclosure sides A/B)<br>8146/.093 (enclosure sides C1/D1) | 136621   |
|                                                                                    | For<br>8146/.S73 (enclosure sides C/D)<br>8146/.083 (enclosure sides C/D)<br>8146/.093 (enclosure sides A/B)   | 136626   |
| 3 mm brass plate for flanges                                                       |                                                                                                                | Art. No. |
|  | For flange size 2 (126 x 266 mm)                                                                               | 136568   |
| Flange                                                                             |                                                                                                                | Art. No. |
|  | Size 2: 126 x 266 mm, 2.8 mm thick                                                                             | 136045   |
|                                                                                    | Size 2: 126 x 266 mm, 5.8 mm thick                                                                             | 136083   |

8146/1093    Art. No. 136899

| Frame                                                                            |                     | Art. No. |
|----------------------------------------------------------------------------------|---------------------|----------|
|  | Size 2.126 x 266 mm | 136031   |

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.