

8146/1051 Art. No. 278800



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

MY R. STAHL 8146S



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) IECEX NEC® CE Code
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 ... T135 °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 ... T135 °C Db
Certification ULus	E177642
Certificate cUL	E177642
Marking ULus	Class I, Zone 1 AEx e IIC T6, T5 Class I, Div. 2, Groups A,B,C,D Class II, Div. 2, Groups F,G Class III Enclosure Type 3, 4, 4X
Marking cUL	Class I, Zone 1 Ex e IIC T6, T5 Class I, Div. 2, Groups A,B,C,D Class II, Div. 2, Groups F,G Class III Enclosure Type 3, 4, 4X
Certificates	ATEX (PTB), Canada (UL), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL)
Ship approval	DNV

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### Electrical Data

Rated operational voltage AC IEC	690 V
Rated operational voltage AC UL	600 V
Rated operational current UL	65 A
Current carrying capacity IEC	max. 54 A
Current carrying capacity NEC, CEC	Max. 65 A

### Ambient Conditions

Ambient temperature	-50 °C ... +40 °C (T6) (T80 °C) -50 °C ... +55 °C (T5) (T95 °C) -50 °C ... +75 °C (T4) (T135 °C)
Ambient temperature	-58°F ... +104°F (T6) (T80 °C) -58°F ... +131°F (T5) (T95 °C) -58°F ... +167°F (T4) (T135 °C)

### Mechanical Data

IP degree of protection (IEC 60529)	IP66
Degree of protection (IP) UL	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	No
Connection cross-section	10 mm <sup>2</sup>
Connection cross-section AWG	8 AWG
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	170 mm
Width, inches	6.692 in
Height	170 mm
Height in inches	6.692 in
Depth	91 mm
Depth in inches	3.583 in
Weight	8 kg
Weight	17.64 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

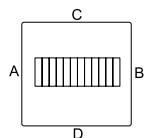
Flange and plates	Without flange
Entries installation options/side	Without drilled holes
Terminal rail	35 x 133 mm (1x)
Terminal rail	1.38 x 5.24" (1x)
Type of terminals 1	1 x Phoenix UT 2-conductor, 10 mm <sup>2</sup> , grey

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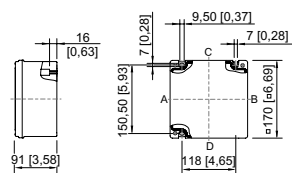
### Components

Type of terminals PE 1	1 x Phoenix UT PE 2-conductor, 10 mm <sup>2</sup> , green-yellow
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### Technical Drawings – Subject to Alterations



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



8146/.051

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.