

8146/1083 Art. No. 278804



- Wide range of Ex e terminal boxes in various sizes and heights
- 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 8146S



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

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)

### Electrical Data

Rated operational voltage AC IEC	690 V
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#### Electrical Data

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	maks. 65 A

#### Ambient Conditions

Ambient temperature °C	-50 °C ... +40 °C (T6) (T80 °C) -50 °C ... +55 °C (T5) (T95 °C) -50 °C ... +75 °C (T4) (T135 °C)
Ambient temperature °F	-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, glassfiberforsterket
Enclosure color	mørk grå
Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	Nei
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	340.5 mm
Width, inches	13.406 in
Height	340.5 mm
Height in inches	13.4060 in
Depth	150 mm
Depth in inches	5.906 in
Weight	8 kg
Weight	17.64 lb

#### Mounting / Installation

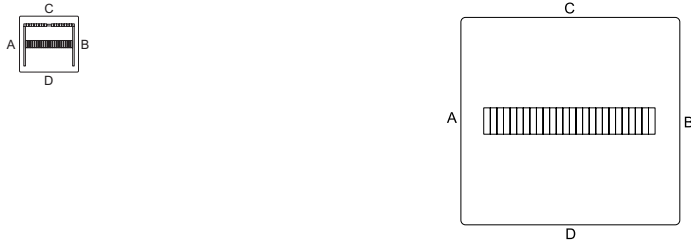
Tightening torque of cover screw 1	4.5 N · m
Tightening torque of cover screw 1 lbf in	39,83 lbf in

#### Components

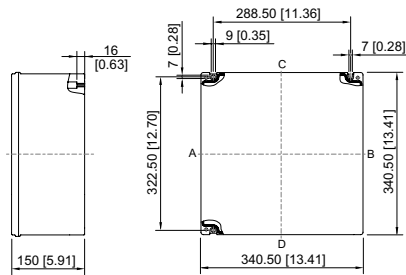
Flange and plates	uten flens
Entries installation options/side	uten borede hull
Terminal rail	35 x 301 mm (1x)
Terminal rail	1,38 x 11,85 " (1x)
Type of terminals 1	1 x Phoenix UT 2-tråds 10 mm <sup>2</sup> grå
Type of grounding terminal 1	1 x Phoenix UT PE 2-tråds 10 mm <sup>2</sup> grønn-gul

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Technical Drawings – Subject to Alterations



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



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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.