

8146/1051 Art. No. 278800



- 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 mm² and, as an option, a flange on several enclosure sides is possible.

Technical Data

Explosion Protection

Scope of validity	European Union (ATEX) IECEX NEC CEC
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 NEC	E177642
Certification CEC	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)

8146/1051 Art. No. 278800

Electrical Data

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

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 UL 94 ASTM D635
Silicone-free	No
Connection cross-section	10 mm ²
Connection cross-section AWG	AWG 8
Cover thickness	2.8 mm
Cover thickness inch	0.11 in
Wall thickness	2.8 mm
Wall thickness, inches	0.11 in
Width	170 mm
Width, inches	6.692 in
Height	170 mm
Height, inches	6.692 in
Depth	91 mm
Depth, inches	3.583 in
Weight	8 kg
Weight	17.64 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 133 mm (1x)
Terminal rail	1.38 x 5.24" (1x)
Type of terminals 1	1 x Phoenix UT 2-conductor, 10 mm ² , grey

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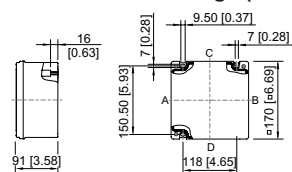
Components

Type of grounding terminal 1	1 x Phoenix UT PE 2-conductor, 10 mm ² , 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.