

8146/2031 Art. No. 136604



- Versatile Ex i 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 8146P



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 mm² and, as an option, a flange can be put on several enclosure sides.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) IECEX United Kingdom
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0046
IECEX gas explosion protection	Ex ia ib 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 ia ib 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), China (NEPSI), IECEX (PTB), India (PESO), Taiwan (ITRI)
Ship approval	DNV
Declaration of conformity	ATEX (EUK), China (CCC)

Electrical Data

Rated operational voltage AC	0 ... 60 V
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Ambient Conditions

Ambient temperature	-60 °C ... +40 °C (IIC T6) (T80 °C) -60 °C ... +55 °C (T5) -60 °C ... +70 °C (T4) (T130 °C)
Ambient temperature	-76 °F ... +104 °F (IIC T6) (T80 °C) -76 °F ... +131 °F (T5) (T95 °C) -76 °F ... +158 °F (T4) (T130 °C)

Mechanical Data

Degree of protection note	According to IEC/EN 60529
IP degree of protection (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 UL 94 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	112.5 mm
Width, inches	4.429 in
Height	112.5 mm
Height in inches	4.429 in
Depth	91 mm
Depth in inches	3.583 in
Weight	600 g
Weight	1.32 lb

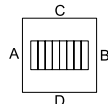
Mounting / Installation

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

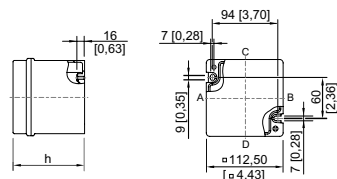
Components

Flange and plates	Without flange
Entries installation options/side	Without drilled holes
Terminal rail	35 x 90 mm (1x)
Terminal rail	1,38 x 3,54 " (1x)
Type of terminals 1	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue
Type of terminals 2	2 x Phoenix UT 2-conductor, 4 mm ² , grey

Technical Drawings – Subject to Alterations



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



8146/.03.
8146/.031: h = 91 mm [3.58 inch]
8146/.037: h = 104 mm [4.09 inch]

Spare Parts

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2 mm brass plate for enclosure

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For
8146/.031 (enclosure sides C/D)
8146/.041 (enclosure sides A/B)

136940

3 mm brass plate for enclosure

Art. No.



For
8146/.031 (enclosure sides C/D)
8146/.041 (enclosure sides A/B)

136395

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.