



- Wide range of Ex i terminal boxes in various sizes and materials, degree of protection IP66
- Customised equipping in accordance with customer specifications
- Enclosures with captive cover screws, if required, flange on enclosure sides is possible

E3

WebCode **8146P**



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fibre-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.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Product Description		Ex i terminal box						
Figure	Product Type	Terminal	Terminal rail	PA rail	Max. no. of terminals 2.5 mm ²	Max. no. of terminals 4 mm ²	Art. No.	Weight kg
	8146/2S71	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (1x)	7 x 4 mm ² (1x)	49	–	136739	2.010
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (1x)	7 x 4 mm ² (1x)	–	41	136741	2.000
	8146/2041	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	–	19	–	136666	0.730
		1 x Phoenix UT 2-conductor, 4 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	–	–	16	136668	0.700
	8146/2051	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 133 mm (1x)	7 x 4 mm ² (1x)	19	–	136689	1.000
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 133 mm (1x)	7 x 4 mm ² (1x)	–	16	136691	1.000
	8146/2061	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 189 mm (1x)	7 x 4 mm ² (1x)	27	–	136715	1.400
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 189 mm (1x)	7 x 4 mm ² (1x)	–	23	136717	1.350

Selection Table

Product Description		Ex i terminal box						Art. No.	Weight kg
Figure	Product Type	Terminal	Terminal rail	PA rail	Max. no. of terminals 2.5 mm ²	Max. no. of terminals 4 mm ²			
	8146/2081	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (1x)	18 x 4 mm ² (1x)	52	–	136801	3.400	
	8146/2081	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (2x)	18 x 4 mm ² (1x)	98	–	136805	3.810	
	8146/2081	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (1x)	18 x 4 mm ² (1x)	–	43	136803	3.370	
	8146/2081	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (2x)	18 x 4 mm ² (1x)	–	82	136807	3.800	
	8146/2093	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 637 mm (1x)	18 x 4 mm ² (2x)	104	–	136902	7.100	
	8146/2093	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 637 mm (2x)	18 x 4 mm ² (2x)	196	–	136904	7.300	
	8146/2093	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 637 mm (1x)	18 x 4 mm ² (2x)	–	86	136903	7.300	
	8146/2093	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 637 mm (2x)	18 x 4 mm ² (2x)	–	164	136905	7.500	

The enclosures are equipped with mounting rails, PE terminals and 1 terminal block of the specified type. 2 connections can be established for each terminal on the PE rail.

Technical Data
Explosion Protection

Ambient temperature °C	-60 ... +75 °C
IECEX gas explosion protection	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	Ⓔ 1 Ex e d ia mb IIC T6...T3 Gb X
EAC dust explosion protection	Ⓔ Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), EAC (LPE), IECEX (PTB), India (PESO), Taiwan (ITRI)
Notes	CCC certificate available from 2021 onward
Ship approval	BVIS
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.

Electrical Data

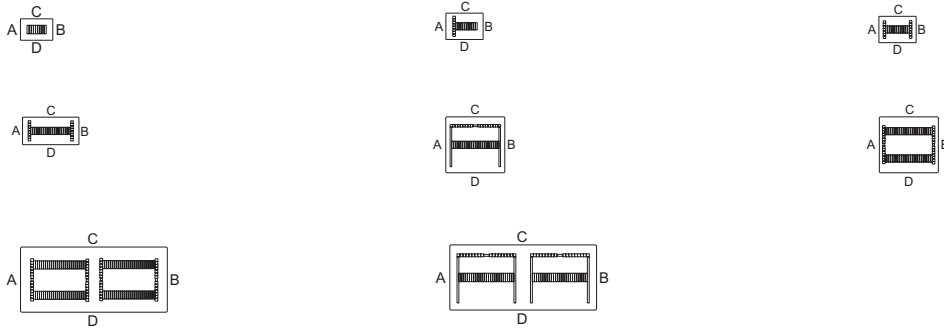
Rated operational voltage AC	60 V
Notes	depend on the terminal type used and the explosion protected components

Mechanical Data

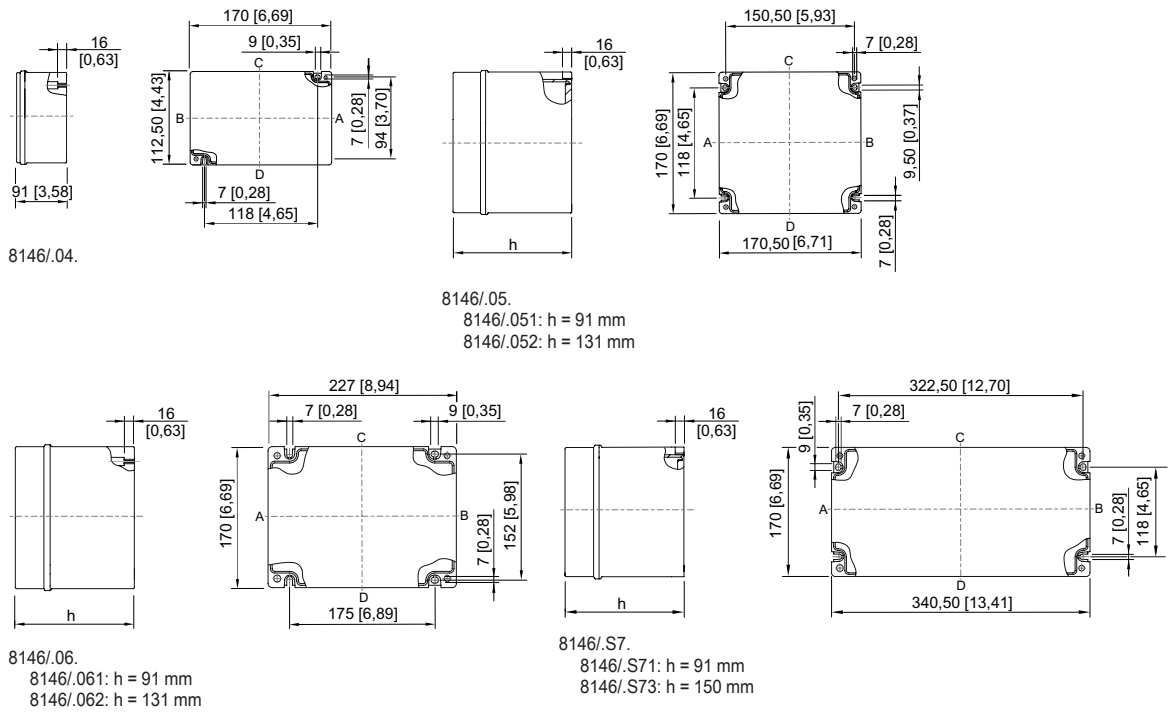
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced

Technical Data	
Mechanical Data	
Silicone-free	No
Components	
Notes	Please observe the information of the terminal manufacturer, e.g. the tightening torque

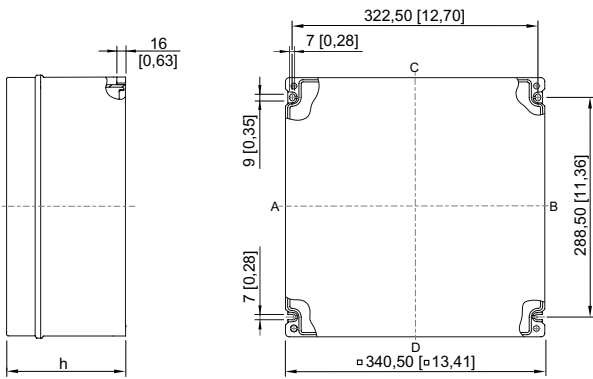
Technical Drawings – Subject to Alterations



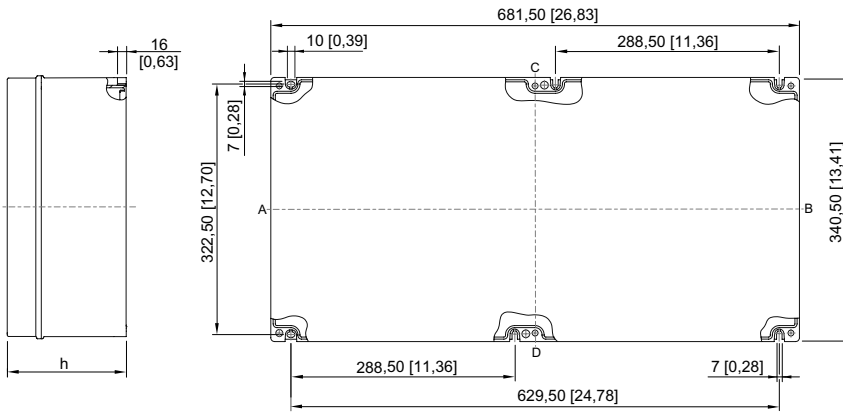
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E3



- 8146/.08.
 8146/.081: h = 91 mm
 8146/.082: h = 131 mm
 8146/.083: h = 150 mm
 8146/.084: h = 171 mm
 8146/.085: h = 190 mm
 8146/.086: h = 230 mm



- 8146/.09.
 8146/.091: h = 91 mm
 8146/.092: h = 131 mm
 8146/.093: h = 150 mm
 8146/.095: h = 190 mm