Applications of low-voltage systems

Battery box
(can only be ordered with connection enclosure)
8316/22-12-0020-1   Art. No. 143958

- Safe: Extremely low gas emissions, effectively sealed to retain electrolyte, leakproof, no acid coating
- Buffer for irregular charging
- Reliable persistent current output, long service life and maintenance-free

MY R. STAHL 8316A

R. STAHL Series 8316 battery box also provides a reliable back-up power supply during continuous operation in hazardous areas. It can be handled cleanly and safely since the gases generated during charging are recombined to form water in the closed battery system. Thanks to minimal self-discharge and protection against total discharge, the battery has a stable cycle, is maintenance-free and has a long service life.

Technical Data

Explosion Protection	
Application range (zones)	1, 2
IECEX gas certificate	IECEx DEK 20.0019
IECEx gas explosion protection	Ex eb IIC T5/T6 Gb
ATEX gas certificate	DEKRA 20ATEX0002
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex eb IIC T5/T6 Gb
Certificates	ATEX (DEK)
Electrical Data	
DC rated operational voltage	12 V
Short-circuit current (IEC/EN896-2)	73 A
Rated current backup fuse	2 A
Tripping characteristic	T
Conduction current	0.2 A
Capacity	2 Ah at 20 °C
Charging voltage	13.8 V
Discharge current	0.05 A at 20 °C
Max. discharge current	40 A
Max. load condition	40 A
Ambient Conditions	
Ambient temperature T5	-20 °C ... 55 °C
Ambient temperature T6	-20 °C ... 40 °C
Charging temperature	0 °C ... 40 °C
Mechanical Data	
Degree of protection IP (IEC 60529)	IP23
Enclosure material	Polyester, Glass fibre reinforced
Min. connection cross-section, finely stranded	6 mm²

2025-05-09
V 0.47 EN

R. STAHL Schaltgeräte GmbH | Am Bahnhof 30 | 74638 WALDENBURG
Tel. +49 7942 943 1700 | +49 7942 943 1777 | Email: sales.de@r-stahl.com | r-stahl.com

1/2

Applications of low-voltage systems

Battery box
(can only be ordered with connection enclosure)
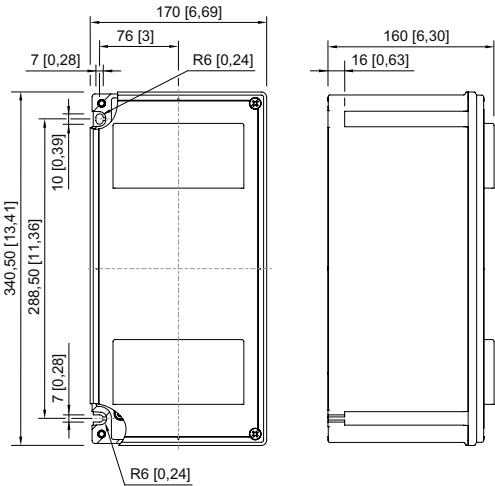8316/22-12-0020-1   Art. No. 143958

STAHL

Mechanical Data

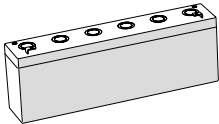|	
Width	170 mm
Width, inches	6.693 in
Height	160 mm
Height in inches	6.2992 in
Length	340.5 mm
Length in inches	13.41 in
Weight	-
Components	
Number of batteries	1

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

Enclosure 8146/5073
for battery box 8316/22-12-0020-1
for battery box 8316/22-12-0100-1
for battery box 8316/22-24-0020-1

Spare Parts

Battery		Art. No.
	Sonnenschein dryfit A512/2S 12 V, 2 Ah	125059

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.

2025-05-09
V 0.47 EN

R. STAHL Schaltgeräte GmbH | Am Bahnhof 30 | 74638 WALDENBURG
Tel. +49 7942 943 1700 | +49 7942 943 1777 | Email: sales.de@r-stahl.com | r-stahl.com

2/2