

Applications of low-voltage systems

STAHL

Battery box

(can only be ordered with connection enclosure)

8316/22-24-0400-1 Art. No. 143967



- 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 | 24 V |
| Short-circuit current (IEC/EN896-2) | 770 A |
| Rated current backup fuse | 40 A |
| Tripping characteristic | B |
| Conduction current | 4 A |
| Capacity | 40 Ah at 20 °C |
| Charging voltage | 27.6 V |
| Discharge current | 2 A at 20 °C |
| Max. discharge current | 400 A |
| Max. load condition | 400 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 | 16 mm ² |

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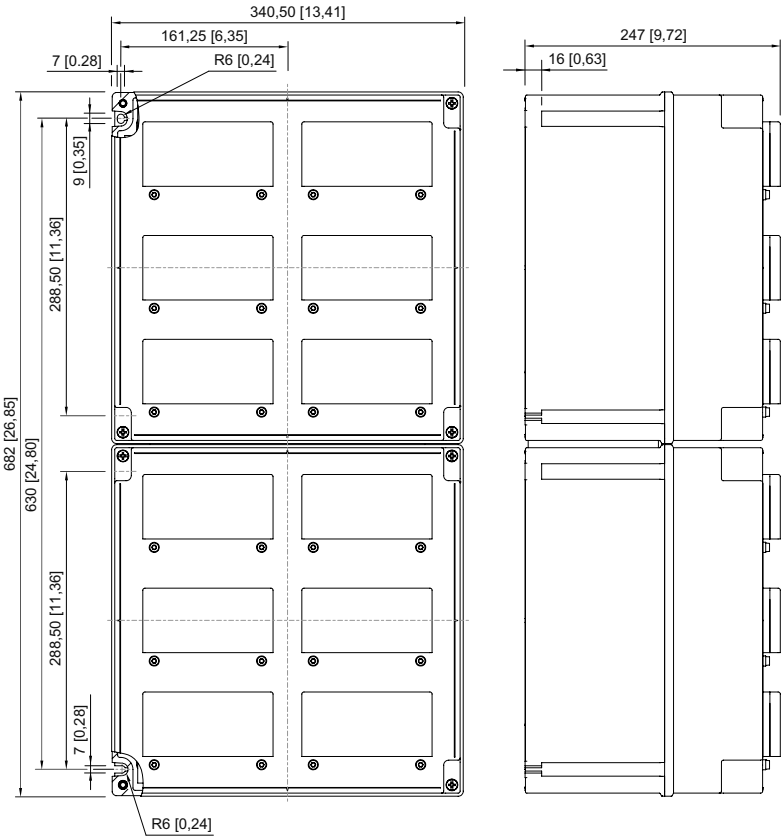
Mechanical Data

| | |
|------------------|-----------|
| Width | 340.5 mm |
| Width, inches | 13.406 in |
| Height | 247 mm |
| Height in inches | 9.7244 in |
| Length | 682 mm |
| Length in inches | 26.85 in |
| Weight | - |

Components

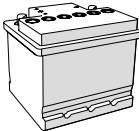
| | |
|---------------------|---|
| Number of batteries | 2 |
|---------------------|---|

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



Enclosure 8146/5000
for battery box 8316/22-24-0250-1
for battery box 8316/22-24-0400-1
for battery box 8316/22-24-0600-1

Spare Parts

| Battery | | Art. No. |
|--|--|----------|
|  | Sonnenschein dryfit A512/40A 12 V, 40 Ah | 125061 |

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.