

Load disconnect switches and motor starters

STAHL

Safety switch

180 A

8146/5-V37-310-51-0060 Art. No. 213487



- Large current range from 10 A to 180 A
- Can be used with conventional drives or with variable-frequency drives
- Intelligent design: A single rotary actuator for actuating the main and auxiliary contacts, ≥ 20 ms leading auxiliary contact for safe disconnection
- Designed in accordance with IEC/EN 62626-1, class 1
- The rotary actuator can be locked in the 0-position with three padlocks
- Cover can only be removed in the I-position

MY R. STAHL 8146L



R. STAHL Series 8146/5-V37 safety switches safely disconnect machines and system parts from the energy supply for cleaning and repair as prescribed. All of the installed load disconnect switches have AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) IECEx
Application range (zones)	1, 2
IECEx gas certificate	IECEx PTB 06.0090
IECEx gas explosion protection	Ex db eb IIC T4 Gb
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	II 2 G Ex db eb IIC T4 Gb
Certificates	ATEX (PTB), Korea (KTL)
Declaration of conformity	ATEX (EUK)
Notes	Product label may vary. Series devices are labelled with ATEX and IECEx.

Electrical Data

Rated operational voltage AC	400 V
Rated operational current	180 A
Switching capacity AC-3 230 V	55 kW
Switching capacity AC-3 400 V	90 kW
Auxiliary contact NC	1 NC
Auxiliary contact NO	1 NO/delayed
Frequency range	50 – 60 Hz

Ambient Conditions

Note	You can find information about the ambient temperature online at r-stahl.com . MY R. STAHL 8146L
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Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Min. solid conn. cr.-sect. AWG	AWG 3/0
Min. f.stra. con. cr.-sec. AWG	AWG 3/0

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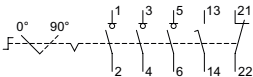
Mechanical Data

Connection terminal auxiliary contact min. AWG	AWG 18
Connection cross section	95 ... 150 mm²
Auxiliary connection connection terminals	0.75 ... 2.5 mm²
Connection cross-section note	Depending on the application; for more detailed information, see the operating instructions at r-stahl.com
Construction type	Standard
Dimension A	681.5 mm
Dimension A inch	26.83 in
Dimension B	681.5 mm
Dimension B inch	26.83 in
Dimension C	205 mm
Dimension C inch	8.07 in
Handle colour	Black shroud and handle
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	3-pole
Weight	19.3 kg
Weight	42.55 lb

Components

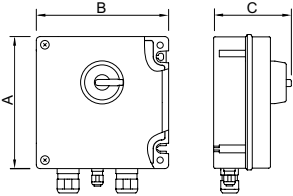
Entry type	8169/1 cable entry grommet
Cable gland	2 x 74 Ø 22 ... 57 mm 1 x M20 Ø 4 ... 13 mm

Technical Drawings – Subject to Alterations



81.../5-V...3...51...
3-pole + 1 NO
(1x ON delayed – OFF leading), 1 NC

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



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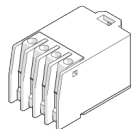
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Accessories

Auxiliary contact

Art. No.



2 NC (8080/1-3)
250 V AC/DC
Max. 6 A
1.5 to 2.5 mm², solid/finely stranded
The switching function of the auxiliary contact depends on the installation slot used.
Left and right: Synchronising

168356

1 NC + 1 NO (8080/1-1)
250 V AC/DC
Max. 6 A
1.5 to 2.5 mm², solid/finely stranded
The switching function of the auxiliary contact depends on the installation slot used.
Left: Delayed (ON), leading (OFF)
Right: Synchronising

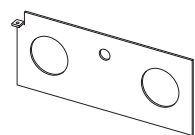
168351

2 NO (8080/1-4)
250 V AC/DC
Max. 6 A
1.5 to 2.5 mm², solid/finely stranded
The switching function of the auxiliary contact depends on the installation slot used.
Left and right: Synchronising

168353

Brass plate

Art. No.



SZ S73/083/093
2 x M63, 1 x M20

227586

Spare Parts

Auxiliary contact key

Art. No.



For removing installed auxiliary contacts

201909

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.