

# Load disconnect switches and motor starters



## Safety switch

80 A

8146/5-V37-307-00-1510 Art. No. 226357



- 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,  $\geq 20$  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, 21, 22
IECEX gas certificate	IECEX PTB 06.0090
IECEX gas explosion protection	Ex db eb IIC T4 Gb
IECEX dust certificate	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T130 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T4 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T130 °C Db
Certificates	ATEX (PTB), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS)
Declaration of conformity	ATEX (EUK), China (CCC)
Notes	Product label may vary. Series devices are labelled with ATEX and IECEX.

### Electrical Data

Rated operational voltage AC	500 V
Rated operational current	80 A
Switching capacity AC-3 230 V	22 kW
Switching capacity AC-3 400 V	45 kW
Switching capacity AC-3 440 V	45 kW
Switching capacity AC-3 500 V	55 kW
Auxiliary contact NC	without
Auxiliary contact NO	without
Frequency range	50 – 60 Hz

### Ambient Conditions

Note	You can find information about the ambient temperature online at <a href="http://r-stahl.com">r-stahl.com</a> . MY R. STAHL 8146L
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### Ambient conditions

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Ambient conditions	Number of poles		Max. current (A)	Conductor cross-section <sup>1)</sup> (mm <sup>2</sup> )		Temperature class/ perm. ambient temperature
	Main contacts	Auxiliary contacts		min.	max.	
	3	0	80	50	150	<b>T4: -40 to +60 °C</b>
<sup>1)</sup> Project engineering note: The maximum conductor cross-sections given were determined using the H07V. The minimum bending radius was assumed to be 4 x outer diameter in accordance with VDE 0298-3. <sup>2)</sup> Only with heat-resistant conductor > 70 °C at cable entries and/or > 85 °C at clamping units <b>Bold:</b> Information on the rating plate						

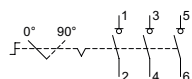
### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	Main contact on terminals
Min. solid conn. cr.-sect. AWG	AWG 1
Min. f.stra. con. cr.-sec. AWG	AWG 1
Connection terminal auxiliary contact min. AWG	AWG 16
Connection cross section	50 ... 6 mm <sup>2</sup>
Auxiliary connection connection terminals	0.75 ... 2.5 mm <sup>2</sup>
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	340.5 mm
Dimension B inch	13.41 in
Dimension C	195 mm
Dimension C inch	7.68 in
Handle colour	Yellow shroud, red handle
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	3-pole
Weight	14.4 kg
Weight	31.75 lb

### Components

Entry type	Standard 8161, moulded material
Cable gland	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm

### Technical Drawings – Subject to Alterations



8146/5-V..-3..-00-....  
3-pole

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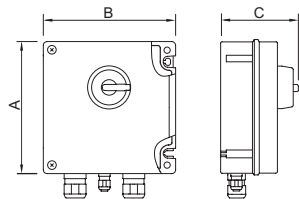


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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



## Accessories

### Auxiliary contact



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

Art. No.

168356

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

168353

## Spare Parts

### Auxiliary contact key



For removing installed auxiliary contacts

Art. No.

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.