

# Load Disconnect Switches and Motor Starters



Safety switch

16 A

8146/5-V37-602-60-1010 Art. No. 201421



- Can be used with conventional drives and drives controlled by frequency converters
- Intelligent design: A single rotary actuator for actuating both main and auxiliary contacts,  $\geq 20$  ms leading auxiliary contact for safely disconnecting the frequency converter
- Version complies with IEC/EN 62626-1, Class 1
- The rotary actuator can be locked with 3 padlocks in the 0-position

MY R. STAHL 8146L



R. STAHL's 8146/5-V37 series safety switches safely disconnect the power supply to machinery and system components for cleaning and repair as prescribed. All of the installed load disconnect switches have an AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

## Technical Data

### Explosion Protection

Scope of validity	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 T6 Gb
IECEX dust certificate	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), China (NEPSI), IECEX (PTB), India (PESO)
Declaration of Conformity	ATEX (EUK), China (CCC)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.

### Electrical Data

Rated operational voltage AC	690 V
Rated operational current	16 A
Switching capacity AC-3 230 V	4 kW
Switching capacity AC-3 400 V	7.5 kW
Switching capacity AC-3 440 V	7.5 kW
Switching capacity AC-3 500 V	7.5 kW
Switching capacity AC-3 690 V	11 kW
Auxiliary contact NC	without
Auxiliary contact NO	2 NO/1x delayed

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## Electrical Data

Frequency range	50 – 60 Hz
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## Ambient Conditions

Note	Information regarding ambient conditions can be found on the Internet at <a href="http://r-stahl.com">r-stahl.com</a> . MY R. STAHL 8146L
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## Ambient conditions

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 contact		min.	max.	
	6	2	16	2,5	6	<b>T6: -40 ... +47 °C</b> T5: -40 ... +62 °C <sup>2)</sup>
When using a conductor cross section of min. 1,5 mm <sup>2</sup> , the temperature class and ambient temperature are reduced to T4: -40 °C ... + 40 °C						
<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> Observe information on the type plate						

## Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	acc. to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Min. solid conn. cr.-sect. AWG	AWG 14
Connection terminal auxiliary contact min. AWG	AWG 16
Connection cross section	2.5 ... 6 mm <sup>2</sup>
Auxiliary connection connection terminals	1.5 ... 6 mm <sup>2</sup>
Connection cross-section note	Depending on the application, for more detailed information see operating instructions at <a href="http://r-stahl.com">r-stahl.com</a>
Construction type	Standard
Dimension A	170 mm
Dimension A inch	6.69 in
Dimension B	170 mm
Dimension B inch	6.69 in
Dimension C	172 mm
Dimension C inch	6.77 in
Handle colour	Yellow shroud, red handle
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	6-pole
Weight	2.64 kg
Weight	5.82 lb

## Components

Entry type	Standard 8161, moulded material
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Safety switch

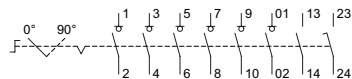
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## Components

Cable gland	4 x M25 Ø 7 to 17 mm 1 x M20 Ø 4 to 13 mm
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## Technical Drawings – Subject to Alterations

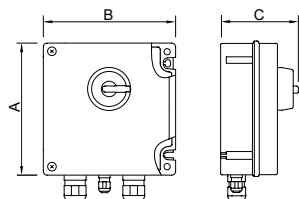


81..-V..-6..-60..

6-pole + 1 NO

(1x ON delayed – OFF leading/1 x switching normally)

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



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.