

# Load Disconnect Switches and Motor Starters

## Safety switch



8146/5-V37-301-50-0150 Art. No. 147857



- 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

WebCode 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. They can be used at frequencies from 5 to 400 Hz. 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

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
EAC certificate	TS RU S-DE.AA71.B.00139
EAC gas explosion protection	Ex 1 Ex e * IIA ... IIC T6 ... T3 Gb X
EAC dust explosion protection	Ex tb IIIC T80 °C ... T130 °C Db X
Certificates	ATEX (PTB), IECEX (PTB)

#### Electrical Data

Rated operational voltage AC	690 V / 690 V
Rated operational current	12 A / 16 A
Rated operational current	12 A (T6) 16 A ()
Rated operational current	0 A / 12 A
Switching capacity AC-3 230 V	3 – 4 kW
Switching capacity AC-3 400 V	5.5 – 7.5 kW
Switching capacity AC-3 440 V	5.5 – 7.5 kW
Switching capacity AC-3 500 V	7.5 – 7.5 kW
Switching capacity AC-3 690 V	7.5 – 11 kW

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### Electrical Data

Auxiliary contact NC	Without
Auxiliary contact NO	1 NO / delayed
Frequency range	50 – 60 Hz

### Ambient Conditions

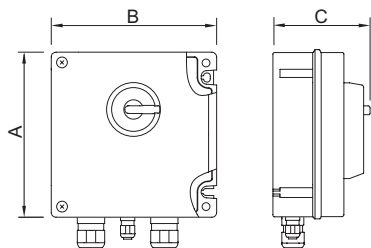
Ambient temperature	-40 °C ... +51 °C -40 °C ... +51 °C
Extended ambient temperature min.	-40 °C
Extended ambient temperature max.	+69 °C
Extended ambient temperature	-40 ... +69 °C

### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	acc. to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	With N-terminal
Connection terminals of auxiliary contact solid max.	4 mm <sup>2</sup>
Connection terminals of auxiliary contact finely stranded max.	2.5 mm <sup>2</sup>
Connection terminals of auxiliary contact min.	1.5 mm <sup>2</sup>
Conductor cross-section min.	2.5 mm <sup>2</sup>
Conductor cross-section min. 2	2.5 mm <sup>2</sup>
Conductor cross-section max.	4 mm <sup>2</sup>
Cable gland	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm
Type of connection cable	Solid Finely stranded
Construction type	Standard
Dimension A	112.5 mm
Dimension B	112.5 mm
Dimension C	131 mm
Colour of handle	Black shroud and handle
Seal	Silicone, foamed
Seal Notes	Seal optional: EPDM
Lockable in	3x in 0
Detailed number of poles	3-pole
Weight	0.982 kg
Weight	2.16 lb
<b>Components</b>	
Entry type	Brass plate with 8161

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



## Accessories and Spare Parts

### Auxiliary contact key

Art. No.

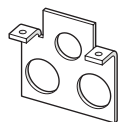


for removing the mounted auxiliary contact

201909

### Brass plate

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size 031  
2 x M25, 1 x M20

148207

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.