

Load Disconnect Switches and Motor Starters

Safety switch



8146/5-V37-303-50-0010 Art. No. 220278



- 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, ≥ 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
Certificates	ATEX (PTB), IECEX (PTB)

Electrical Data

Rated operational voltage AC	690 V
Rated operational current	20 A
Rated operational current	20 A (T6)
Rated operational current	0 A / 20 A
Switching capacity AC-3 230 V	5.5 kW
Switching capacity AC-3 400 V	7.5 kW
Switching capacity AC-3 440 V	11 kW
Switching capacity AC-3 500 V	11 kW
Switching capacity AC-3 690 V	18.5 kW
Auxiliary contact NC	Without
Auxiliary contact NO	1 NO / delayed
Frequency range	50 – 60 Hz

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Ambient Conditions

Ambient temperature	-40 °C ... +40 °C
Extended ambient temperature min.	-40 °C
Extended ambient temperature max.	+55 °C
Extended ambient temperature	-40 ... +55 °C

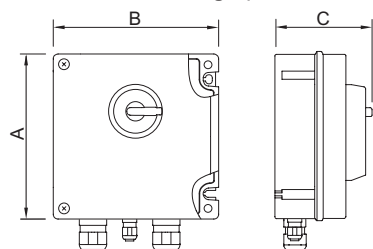
Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	acc. to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	Standard (without)
Connection terminals of auxiliary contact solid max.	6 mm ²
Connection terminals of auxiliary contact finely stranded max.	4 mm ²
Connection terminals of auxiliary contact min.	1.5 mm ²
Conductor cross-section min.	4 mm ²
Conductor cross-section min. 2	0 mm ²
Conductor cross-section max.	6 mm ²
Cable gland	2 x M32 Ø 13 ... 21 mm 1 x M20 Ø 4 ... 13 mm
Type of connection cable	Solid Finely stranded
Construction type	Standard
Dimension A	170 mm
Dimension B	170 mm
Dimension C	132 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	2.02 kg
Weight	4.45 lb

Components

Entry type	Standard 8161, moulded material
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations




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Accessories and Spare Parts

Auxiliary contact key		Art. No.
	for removing the mounted auxiliary contact	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.