

Load Disconnect Switches and Motor Starters

Safety switch



8146/5-V37-308-51-0040 Art. No. 212212



- 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/T5 Gb
IECEX dust certificate	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T95 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6/T5 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T80 °C ... T95 °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 / 400 V
Rated operational current	125 A / 160 A
Rated operational current	125 A (T6) 160 A (T5)
Rated operational current	0 A / 125 A
Switching capacity AC-3 230 V	37 – 45 kW
Switching capacity AC-3 400 V	55 – 90 kW
Switching capacity AC-3 440 V	75 – 90 kW
Switching capacity AC-3 500 V	75 - -- kW
Switching capacity AC-3 690 V	110 - -- kW

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Electrical Data

Auxiliary contact NC	1 NC
Auxiliary contact NO	1 NO / delayed
Frequency range	50 – 60 Hz

Ambient Conditions

Ambient temperature	-40 °C ... +47 °C (IIC T6) (T80 °C) (max. 125 A) -40 °C ... +40 °C (IIC T5) (T95 °C) (max. 160 A)
Extended ambient temperature min.	-40 °C
Extended ambient temperature max.	+72 °C
Extended ambient temperature	-40 ... +72 °C

Mechanical Data

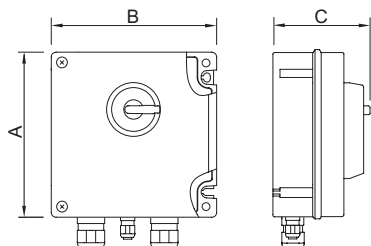
Degree of protection (IP)	IP66
Degree of protection note	acc. to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	Standard (without)
Connection terminals of auxiliary contact finely stranded max.	2.5 mm ²
Connection terminals of auxiliary contact min.	0.75 mm ²
Conductor cross-section min.	95 mm ²
Conductor cross-section min. 2	95 mm ²
Conductor cross-section max.	150 mm ²
Cable gland	2 x M63 1 x M20
Type of connection cable	Solid Finely stranded
Construction type	Standard
Dimension A	681.5 mm
Dimension B	681.5 mm
Dimension C	205 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	22.77 kg
Weight	50.2 lb

Components

Additional device	Brass plate drilled
Entry type	Brass plate with drilled holes

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



Accessories and Spare Parts

Auxiliary contact		Art. No.
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168356
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² 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 contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353
Auxiliary contact key		Art. No.
	for removing the mounted auxiliary contact	201909
Brass plate		Art. No.
	size S73/083/093 2 x M63, 1 x M20	227586

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.