

Load Disconnect Switches and Motor Starters

Safety switch

STAHL

8146/5-V37-606-51-0010 Art. No. 200574



- 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
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 / 500 V
Rated operational current	63 A / 80 A
Rated operational current	63 A (T6) 80 A ()
Rated operational current	0 A / 63 A
Switching capacity AC-3 230 V	18.5 – 22 kW
Switching capacity AC-3 400 V	30 – 45 kW
Switching capacity AC-3 440 V	37 – 45 kW
Switching capacity AC-3 500 V	37 – 55 kW
Switching capacity AC-3 690 V	55 - -- 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 -40 °C ... +43 °C
Extended ambient temperature min.	-40 °C
Extended ambient temperature max.	+62 °C
Extended ambient temperature	-40 ... +62 °C

Mechanical Data

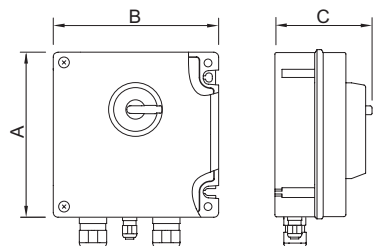
Degree of protection (IP)	IP66
Degree of protection note	acc. to EN/IEC 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	Standard (without)
Connection terminals of auxiliary contact finely stranded max.	2.5 mm ²
Connection terminals of auxiliary contact min.	0.75 mm ²
Conductor cross-section min.	25 mm ²
Conductor cross-section min. 2	35 mm ²
Conductor cross-section max.	50 mm ²
Cable gland	4 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm
Type of connection cable	Finely stranded Solid
Construction type	Standard
Dimension A	681.5 mm
Dimension B	340.5 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	6-pole
Weight	10.1 kg
Weight	22.27 lb

Components

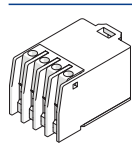
Entry type	Standard 8161, moulded material
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories and Spare Parts

Auxiliary contact	Art. No.
 <p>2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising</p>	168356
<p>1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: delayed (ON), leading (OFF) Right: synchronising</p>	168351
<p>2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising</p>	168353
Auxiliary contact key	Art. No.
	<p>for removing the mounted auxiliary contact</p>

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.