

Load Disconnect Switches and Motor Starters

Safety switch



8146/5-V37-305-00-0010-K Art. No. 242415



- 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 (Zone)	1 2 21 22
Certificate IECEX Gas	IECEX PTB 06.0090
Certificate ATEX Gas	PTB 01 ATEX 1024
Certificate IECEX Dust	IECEX PTB 06.0090
Certificate ATEX Dust	PTB 09 ATEX 1024
Ambient temperature °C	-40 ... +48 °C
Gas explosion protection IECEX	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEX	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	China (NEPSI), EAC (LPE), IECEX (PTB), Korea (KGS)

Electrical Data

Rated operational voltage AC	0 – 690 V
Rated operational voltage AC	690 V
Rated operational current	40 A
Rated operational current	0 – 40 A
Rated operational current	40 A
Frequency range	50 – 60 Hz
Switching capacity AC-3 230 V	11 kW
Switching capacity AC-3 400 V	22 kW
Switching capacity AC-3 440 V	22 kW
Switching capacity AC-3 500 V	22 kW
Switching capacity AC-3 690 V	37 kW
Auxiliary contact NC	without

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Electrical Data

Auxiliary contact NO	without
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Ambient Conditions

Min. ambient temperature	-40 °C
Max. ambient temperature	+48 °C
Ambient temperature	-40 °C ... +48 °C
Extended min. ambient temperature	-40 °C
Extended max. ambient temperature	+66 °C

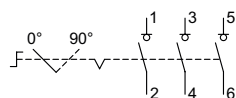
Mechanical Data

Type of protection (IP)	IP66
Enclosure material	Polyester resin, glass fibre-reinforced
Weight	5.52 kg
Additional terminal	Standard (without)
Connection terminals of auxiliary contact finely stranded max.	2.5 mm ²
Min. connection terminals of auxiliary contact	0.75 mm ²
Min. conductor cross-section	10 mm ²
Min. conductor cross-section ²	0 mm ²
Max. conductor cross-section	25 mm ²
Cable gland	2 x M40 Ø 12 ... 28 mm
Type of connection line	solid finely-stranded
Construction type	Standard
Dimension A	340.5 mm
Dimension B	170 mm
Dimension C	176.5 mm
Dimensions A	340.5 mm
Dimensions B	170 mm
Dimensions C	176.5 mm
Colour of handle	black collar and handle
Seal	Silicone, foamed
Padlockable in	3 positions in 0-position
Detailed number of poles	3 pole

Components

Type of entry	Standard 8161 moulded material
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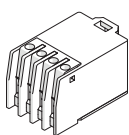
Technical Drawings



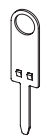
Accessories and Spare Parts

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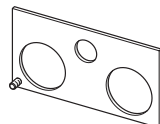
Auxiliary contact

		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 073 A/B 2 x M40, 1 x M20	200215

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