

8146/5-V37-305-51-0010-K Art. No. 200206



- 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. 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), China (NEPSI), EAC (ENDCE), IECEX (PTB)

Electrical Data

Rated operational voltage AC	690V
Rated operational current	40 A
Rated operational current	40 A (T6)
Rated operational current	40 A (T6)
Rated operational current	0 A / 40 A
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	1 NC
Auxiliary contact NO	1 NO/delayed
Frequency range	50 – 60 Hz

Load Disconnect Switches and Motor Starters

Safety switch



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Ambient Conditions

Ambient temperature	-40 °C ... +48 °C
Min. extended ambient temperature	-40 °C
Max. extended ambient temperature	+66 °C
Extended ambient temperature	-40 – 66 °C

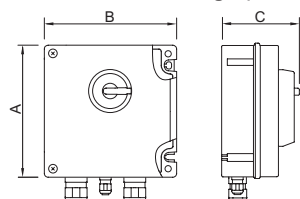
Mechanical Data

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)
Min. auxiliary contact connection terminals	0.75 mm ²
Max. auxiliary connection connection terminals, finely stranded	2.5 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 to 28 mm 1 x M20 Ø 4 to 13 mm
Type of connection cable	Finely stranded Solid
Construction type	Compact design
Dimension A	340.5 mm
Dimension B	170 mm
Dimension C	176.5 mm
Handle colour	Black shroud and handle
Seal	Silicone, foamed
Seal Notes	Seal optional: EPDM
Lockable in	3x in 0
Detailed number of poles	3-pole
Weight	5.56 kg
Weight	12.26 lb

Components

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



Version	Rated operational current	Product Type	Dimension A [mm]	Dimension B [mm]	Dimension C [mm]
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3-pole	10, 12 / 16 A	8146/5-V37-300-50-... 8146/5-V37-301-50-...	112.5 112.5	112.5 112.5	131 131
	16 A	8146/5-V37-302-50-... 8146/5-V37-302-...-5.. 8150/5-V37-302-50-... 8146/5-V37-302-50-0250	170 340.5 176.5 227	112.5 170 176.5 112.5	132 132 132 172
	20 A	8146/5-V37-303-50-...	170	170	132
	25 A	8146/5-V37-304-50-... 8150/5-V37-304-50-...	170 176.5	170 176.5	132 132
	40 A	8146/5-V37-305-...-K 8146/5-V37-305-...-5.. 8150/5-V37-305-...-K	340.5 340.5 360	170 340.5 176.5	176.5 195 194
	63 / 80 A	8146/5-V37-306-...-K 8146/5-V37-306-... 8146/5-V37-306-...-5.. 8150/5-V37-306-S1-...	340.5 340.5 681.5 360	170 340.5 340.5 360	195 195 195 196
	80 A	8146/5-V37-307-...-5..	681.5	340.5	195
	125 / 160 A	8146/5-V37-308-...-K 8146/5-V37-308-...	681.5 681.5	340.5 681.5	205 205
	180 A	8146/5-V37-310-...-K 8146/5-V37-310-...	681.5 681.5	340.5 681.5	205 205
	6-pole	16 A	8146/5-V37-602-60-...	170	170
25 A		8146/5-V37-604-60-...	227	170	172
40 A		8146/5-V37-605-...-K	340.5	340.5	205
63 / 80 A		8146/5-V37-606-...	681.5	340.5	205
125 / 160 A		8146/5-V37-608-...	1023	681.5	243
180 A		8146/5-V37-610-...	1023	681.5	243

Accessories

Auxiliary contact

Art. No.

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	<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>	201909

Brass plate	Art. No.	
	<p>size 073 A/B 2 x M40, 1 x M20</p>	200215

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