

Load Disconnect Switches and Motor Starters

Safety switch

STAHL

8146/5-V37-306-51-0010-K Art. No. 200558



- 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
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 ... +42 °C
Gas explosion protection IECEX	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ex II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEX	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ex II 2 D Ex tb IIIC T80 °C Db
Ambient temperature °C 2	-40 ... +40 °C
Certificates	ATEX (PTB), China (NEPSI), EAC (LPE), IECEX (PTB), Korea (KGS)
EAC certificate	TS RU S-DE.GB04.B.00353

Electrical Data

AC rated operational voltage 2	0 – 500 V
AC rated operational voltage	0 – 690 V
AC rated operational voltage	690 V
Rated operational current	63 A
Rated operational current	0 – 63 A
Rated operational current	63 A / 80 A
Rated operational current2	0 – 80 A
Frequency range	50 – 60 Hz
Switching capacity AC-3 230 V	18.5 – 22 kW
Switching capacity AC-3 400 V	30 – 45 kW

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Electrical Data

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
Auxiliary contact NC	1 NC
Auxiliary contact NO	1 NO / delayed

Ambient Conditions

Min. ambient temperature	-40 °C
Max. ambient temperature	+42 °C
Min. ambient temperature 2	-40 °C
Max. ambient temperature 2	+40 °C
Ambient temperature	-40 °C ... +42 °C -40 °C ... +40 °C
Min. extended ambient temp.	-40 °C
Max. extended ambient temp.	+57 °C

Mechanical Data

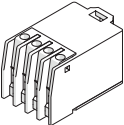
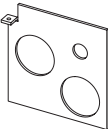
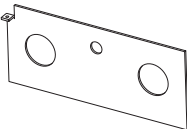
Degree of protection (IP)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Additional terminal	Standard (without)
Max. fi strndd au cont con tnls	2.5 mm ²
Min. aux. con. conn. terminals	0.75 mm ²
Min. conductor cross-section	16 mm ²
Min. conductor cross-section 2	25 mm ²
Max. conductor cross-section	25 mm ²
Cable gland	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm
Type of connection cable	Finely stranded Solid
Construction type	Compact design
Dimension A	340.5 mm
Dimension B	170 mm
Dimension C	195 mm
Dimension A	340.5 mm
Dimension B	170 mm
Dimension C	195 mm
Handle colour	Black shroud and handle
Seal	Silicone, foamed
Lockable in	3x in 0
Detailed number of poles	3-pole
Weight	5.68 kg

Components

Entry type	Standar 8161, moulded material
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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 073 A/B 2 x M50, 1 x M20	201948
	size S73/083/093 2 x M50, 1 x M20	226936

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