

Load Disconnect Switches and Motor Starters

Safety switch



8146/5-V37-606-00-0010 Art. No. 200573



- 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 | Without |
| Auxiliary contact NO | Without |
| 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

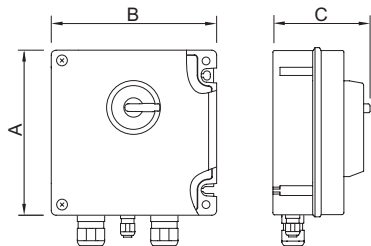
| | |
|--|---|
| Degree of protection (IP) | IP66 |
| Degree of protection note | acc. to EN/IEC 60529 |
| Enclosure material | Polyester resin, Glass fibre reinforced |
| Additional terminal | Standard (without) |
| Connection terminals of auxiliary contact finely stranded max. | 2.5 mm ² |
| Connection 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 |
|------------|---------------------------------|

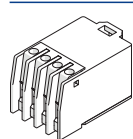
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories and Spare Parts

Auxiliary contact



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

Art. No.

168356

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

168351

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

168353

Auxiliary contact key



for removing the mounted auxiliary contact

Art. No.

201909

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.