

Load Disconnect Switches and Motor Starters

Safety switch



8146/5-V37-304-50-1010 Art. No. 201423



- 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), IECEX (PTB) |

Electrical Data

| | |
|-------------------------------|----------------|
| Rated operational voltage AC | 690 V |
| Rated operational current | 25 A |
| Rated operational current | 25 A (T6) |
| Rated operational current | 0 A / 25 A |
| Switching capacity AC-3 230 V | 5.5 kW |
| Switching capacity AC-3 400 V | 11 kW |
| Switching capacity AC-3 440 V | 11 kW |
| Switching capacity AC-3 500 V | 15 kW |
| Auxiliary contact NC | Without |
| Auxiliary contact NO | 1 NO / delayed |
| Frequency range | 50 – 60 Hz |

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Ambient Conditions

| | |
|-----------------------------------|-------------------|
| Ambient temperature | -40 °C ... +40 °C |
| Extended ambient temperature min. | -40 °C |
| Extended ambient temperature max. | +55 °C |
| Extended ambient temperature | -40 ... +55 °C |

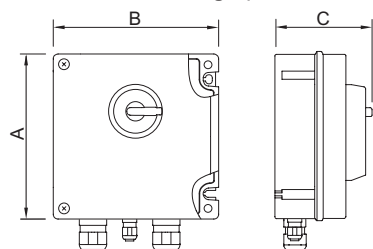
Mechanical Data

| | |
|--|--|
| 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 solid max. | 6 mm ² |
| Connection terminals of auxiliary contact finely stranded max. | 4 mm ² |
| Connection terminals of auxiliary contact min. | 1.5 mm ² |
| Conductor cross-section min. | 4 mm ² |
| Conductor cross-section min. 2 | 0 mm ² |
| Conductor cross-section max. | 6 mm ² |
| Cable gland | 2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm |
| Type of connection cable | Solid Finely stranded |
| Construction type | Standard |
| Dimension A | 170 mm |
| Dimension B | 170 mm |
| Dimension C | 132 mm |
| Colour of handle | Yellow shroud, red handle |
| Seal | Silicone, foamed |
| Seal Notes | Seal optional: EPDM |
| Lockable in | 3x in 0 |
| Detailed number of poles | 3-pole |
| Weight | 2.02 kg |
| Weight | 4.45 lb |

Components

| | |
|------------|---------------------------------|
| Entry type | Standard 8161, moulded material |
|------------|---------------------------------|

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



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

Accessories

| Auxiliary contact key | Art. No. |
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for removing the mounted auxiliary contact

201909

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