

# Load disconnect switches and motor starters

## Safety switch



8150/5-V37-308-51-1010-K Art. No. 222694



- Can be used with conventional drives or with variable-frequency drives
- Intelligent design: A single rotary actuator for actuating the main and auxiliary contacts,  $\geq 20$  ms leading auxiliary contact for safe disconnection
- Designed in accordance with IEC/EN 62626-1, class 1
- The rotary actuator can be locked in the 0-position with three padlocks

MY R. STAHL 8150F



R. STAHL Series 8150/5-V37 safety switches safely disconnect machines and system parts from the energy supply for cleaning and repair as prescribed. All of the installed load disconnect switches have AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

### Technical Data

#### Explosion Protection

Area of application	European Union (ATEX) IECEX
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 09.0049
IECEX gas explosion protection	Ex db eb IIC T6 / T5 Gb
IECEX dust certificate	IECEX PTB 09.0049
IECEX dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db
ATEX gas certificate	PTB 09 ATEX 1109
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T6 / T5 Gb
ATEX dust certificate	PTB 09 ATEX 1109
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T95 °C Db
Certificates	ATEX (PTB), China (NEPSI), IECEX (PTB), India (PESO)
Declaration of conformity	ATEX (EUK), China (CCC)

#### Electrical Data

Rated operational voltage AC	690 V / 500 V
Rated operational current	125 A (T6) 160 A (T5)
Rated operational current	125 A
Switching capacity AC-3 230 V	37 – 45 kW
Switching capacity AC-3 400 V	55 – 90 kW
Switching capacity AC-3 440 V	75 – 90 kW
Switching capacity AC-3 500 V	75 – -- kW
Switching capacity AC-3 690 V	110 – -- kW
Auxiliary contact NC	1 NC
Auxiliary contact NO	1 NO/delayed
Frequency range	50 – 60 Hz

#### Ambient Conditions

Ambient temperature	-40 °C ... +44 °C (IIC T6) (T80 °C) (Max. 125 A) (T5)
---------------------	---

# Load disconnect switches and motor starters

## Safety switch



8150/5-V37-308-51-1010-K Art. No. 222694

### Ambient Conditions

Ambient temperature	-40 °F ... +111 °F (IIC T6) (T80 °C) (Max. 125 A) ( T5) (T95 °C)
---------------------	--

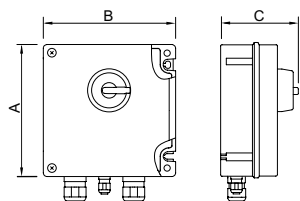
### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to EN/IEC 60529
Enclosure material	Stainless steel 1.4404, (AISI 316L), brush finished
Solid con. cross-section min.2	120 mm <sup>2</sup>
Min. fin.str. conn. cr.-sec. 2	120 mm <sup>2</sup>
Min. solid conn. cr.-sect. AWG	AWG 4/0
Min. solid con. cr.-sect. AWG2	AWG 4/0
Min. f.stra. con. cr.-sec. AWG	AWG 4/0
Min. f.str. con. cr.-sec. AWG2	AWG 4/0
Connection terminal auxiliary contact min. AWG	AWG 18
Construction type	Compact design
Dimension A	727 mm
Dimension A inch	28.62 in
Dimension B	360 mm
Dimension B inch	14.17 in
Dimension C	150 mm
Dimension C inch	5.91 in
Handle colour	Yellow shroud, red handle
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	3-pole
Weight	25.6 kg
Weight	56.49 lb

### Components

Entry type	Standard 8161, moulded material
Cable gland	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm

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



Ver- sion	Rated operational current	Product Type	Dimension A [mm]	Dimension B [mm]	Dimension C [mm]
--------------	------------------------------	--------------	---------------------	---------------------	---------------------

# Load disconnect switches and motor starters

## Safety switch



8150/5-V37-308-51-1010-K Art. No. 222694

3-pole	16 A	8150/5-V37-302-50-....	176.5	176.5	132
	25 A	8150/5-V37-304-50-....	176.5	176.5	132
	40 A	8150/5-V37-305-51- ....-K	360	176.5	194
	63 A	8150/5-V37-306-51- ....-K	360	360	196
	125 A	8150/5-V37-308-51- ....-K	727	360	203

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.