

Load disconnect switches and motor starters

Safety switch



8150/5-V37-306-51-0010-K Art. No. 214174



- Can be used with conventional drives or with variable-frequency drives
- Intelligent design: A single rotary actuator for actuating the main and auxiliary contacts, ≥ 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

Scope of validity	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 Gb
IECEX dust certificate	IECEX PTB 09.0049
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	PTB 09 ATEX 1109
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6 Gb
ATEX dust certificate	PTB 09 ATEX 1109
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T80 °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	63 A (T6) 80 A ()
Rated operational current	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
Auxiliary contact NC	1 NC
Auxiliary contact NO	1 NO/delayed

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Electrical Data

Frequency range	50 – 60 Hz
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Ambient Conditions

Ambient temperature	-40 °C ... +42 °C -40 °C ... +40 °C
Ambient temperature	-40 °F ... +107 °F -40 °F ... +104 °F

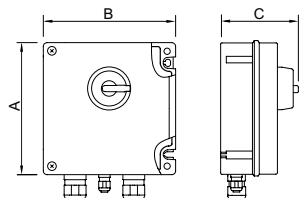
Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to EN/IEC 60529
Enclosure material	Stainless steel 1.4404, (AISI 316L), brush finished
Min. solid conn. cr.-sect. AWG	AWG 4
Connection terminal auxiliary contact min. AWG	AWG 18
Construction type	Standard
Dimension A	360 mm
Dimension A inch	14.17 in
Dimension B	360 mm
Dimension B inch	14.17 in
Dimension C	196 mm
Dimension C inch	7.72 in
Handle colour	Black shroud and handle
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	3-pole
Weight	12.6 kg
Weight	27.78 lb

Components

Entry type	Standard 8161, moulded material
Cable gland	2 x M50 Ø 16 to 35 mm 1 x M20 Ø 4 to 13 mm

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-...	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
	20 A	8146/5-V37-302-50-...	170	170	132
		8146/5-V37-302-50-0250			
	25 A	8146/5-V37-303-50-...	170	170	132
		8146/5-V37-304-50-...	176.5	176.5	132
40 A	8150/5-V37-304-50-...				
	8146/5-V37-305-...-K	340.5	170	176.5	
	8146/5-V37-305-...-5..	340.5	340.5	195	
63/80 A	8146/5-V37-305-...-K	360	176.5	194	
	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	
80 A	8150/5-V37-306-S1-...	360	360	196	
	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

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.