

Load disconnect switches and motor starters

STAHL

Load disconnect switch

63 A / 80 A

8146/5-V11-306-00-0010-K Art. No. 205688



- 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 safely disconnecting the frequency converter
- Reliable load disconnect switch with positive opening operation of the main contacts

MY R. STAHL 8146M



R. STAHL Series 8146/5-V11 load disconnect switches can be used as mains connection switches for distributor systems and motor circuits. The standard versions are designed for rated operational currents of up to 80 A – currents of 16 to 630 A are possible. They have AC-3, AC-23 and DC-23 motor switching capacity. They have a large, padlockable rotary actuator in black or red/yellow.

Technical Data

Explosion Protection

Area of application	Canada IECEX USA
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), India (PESO)
Declaration of conformity	ATEX (EUK), China (CCC)

Electrical Data

Rated operational voltage AC	690 V / 500 V
Rated operational current	63 A / 80 A
Nominal power	60 hp
Auxiliary contact NC	without
Auxiliary contact NO	without
Max. short-circuit protection	125 A
Short-circuit protection, max. 2	160 A
Tripping characteristic	gG
Frequency range	50 – 60 Hz

Auxiliary Power

Nominal voltage	480 V AC
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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
Enclosure material	Polyester, Glass fibre reinforced
Additional terminal	without
Min. connection cross section, solid	16 mm ²
Solid con. cross-section min.2	25 mm ²
Max. connection cross section, solid	0 mm ²
Min. connection cross-section, finely stranded	16 mm ²
Min. fin.str. conn. cr.-sec. 2	25 mm ²
Max. connection cross-section, finely stranded	25 mm ²
Min. solid conn. cr.-sect. AWG	AWG 6
Min. solid con. cr.-sect. AWG2	AWG 4
Max. solid conn. cr.-sect. AWG	AWG 0
Min. f.stra. con. cr.-sec. AWG	AWG 6
Min. f.str. con. cr.-sec. AWG2	AWG 4
Connection terminal auxiliary contact min. AWG	AWG 0
Connection terminal auxiliary contact solid max.	AWG 0
Connection terminal auxiliary contact finely stranded max.	AWG 0
Construction type	Compact design
Width	170 mm
Width, inches	6.69 in
Height	340.5 mm
Height in inches	13.41 in
Depth	195 mm
Depth in inches	7.68 in
Service life, min.	10 ⁵ operating cycles
Handle colour	Black
Protective collar colour	Black
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Detailed number of poles	3-pole
Weight	5.32 kg
Weight	11.72 lb

Components

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

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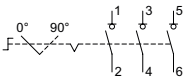


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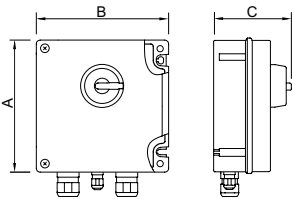
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Technical Drawings – Subject to Alterations



8146/5-V...-3...-00-....
3-pole

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]
3-pole	10 A	8146/ 5- V11- 300- 00- 1050 8146/ 5- V11- 300- 00- 0050	112.5	112.5	131
	16 A	8146/ 5- V11- 302- 00- 0050 8146/ 5- V11- 302- 00- 1050 8146/ 5- V11- 102- 00- 0110	170 170 170	112.5 112.5 170	132 132 172
	20 A	8146/ 5- V11- 303- 00- 0010	170	170	132
	25 A	8146/ 5- V11- 104- 00- 0110 8146/ 5- V11- 304- 00- 1010	227 170	170 170	171 132
	40 A	8146/ 5- V11- 305- 00- 0010- K 8146/ 5- V11- 305- 00- 1010- K	340.5 340.5	170 170	176.5 176.5
	63–80 A	8146/ 5- V11- 306- 00- 0010- K 8146/ 5- V11- 306- 00- 1010- K	340.5 340.5	170 170	195 195

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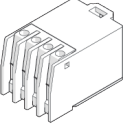
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3-pole + N	10 A	8146/ 5- V11- 400- 00- 0050	112.5	112.5	131
	16 A	8146/ 5- V11- 402- 00- 0050 8146/ 5- V11- 402- 00- 1050	170 170	112.5 112.5	132.0 132.0
	20 A	8146/ 5- V11- 403- 00- 0010K	170	170	132
	25 A	8146/ 5- V11- 404- 00- 0010	170	170	132
	40 A	8146/ 5- V11- 405- 00- 0010- K	340.5	340.5	195
	63–80 A	8146/ 5- V11- 406- 00- 0010- K 8146/ 5- V11- 406- 00- 1010- K	340.5 340.5	340.5 340.5	195 195
6-pole	25 A	8146/ 5- V11- 604- 60- 0010	227	170	172

Accessories

Auxiliary contact		Art. No.
	Note: The auxiliary contacts can only be retrofitted for 40 A, 63 A and 80 A versions. For all other versions, the auxiliary contact must be ordered separately when placing the order. Retrofitting is not possible for this.	
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm², solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168356
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 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 (8080/1-4) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm², solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168353

Spare Parts

Auxiliary contact key		Art. No.
	For removing installed auxiliary contacts	201909

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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.