



- 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

Scope of validity	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
Rated operational current	25 A (T6)
Nominal power	15 HP
Auxiliary contact NC	without
Auxiliary contact NO	without
Short-circuit protection, max.	35 A
Tripping characteristic	gG
Frequency range	50 – 60 Hz

Auxiliary Power

Nominal voltage	480 V AC
-----------------	----------

Load disconnect switches and motor starters

Load disconnect switch



8146/5-V11-304-00-0010 Art. No. 205691

Ambient Conditions

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

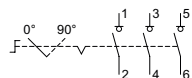
Mechanical Data

Degree of protection (IP)	IP66
Enclosure material	Polyester, Glass fibre reinforced
Additional terminal	without
Min. connection cross section, solid	4 mm ²
Max. connection cross section, solid	0 mm ²
Min. connection cross-section, finely stranded	4 mm ²
Max. connection cross-section, finely stranded	6 mm ²
Min. solid conn. cr.-sect. AWG	AWG 12
Max. solid conn. cr.-sect. AWG	AWG 0
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	Standard
Width	170 mm
Width, inches	6.69 in
Height	170 mm
Height, inches	6.69 in
Depth	132 mm
Depth, inches	5.2 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	1.98 kg
Weight	4.35 lb

Components

Entry type	Standard 8161, moulded material
Cable gland	1x M32 Ø 9 ... 21mm 1x M20 Ø 4 ... 13 mm with plug

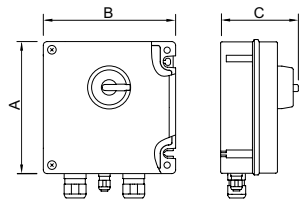
Technical Drawings – Subject to Alterations



81..V..-3..-00..
3-pole

8146/5-V11-304-00-0010 Art. No. 205691

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	170	112.5	132
		8146/ 5- V11- 302- 00- 1050	170	112.5	132
		8146/ 5- V11- 102- 00- 0110	170	170	172
	20 A	8146/ 5- V11- 303- 00- 0010	170	170	132
	25 A	8146/ 5- V11- 104- 00- 0110	227	170	171
		8146/ 5- V11- 304- 00- 1010	170	170	132
40 A	8146/ 5- V11- 305- 00- 0010- K	340.5	170	176.5	
	8146/ 5- V11- 305- 00- 1010- K	340.5	170	176.5	
63–80 A	8146/ 5- V11- 306- 00- 0010- K	340.5	170	195	
	8146/ 5- V11- 306- 00- 1010- K	340.5	170	195	
3-pole + N	10 A	8146/ 5- V11- 400- 00- 0050	112.5	112.5	131
	16 A	8146/ 5- V11- 402- 00- 0050	170	112.5	132.0
		8146/ 5- V11- 402- 00- 1050	170	112.5	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	340.5	340.5	195	
	8146/ 5- V11- 406- 00- 1010- K	340.5	340.5	195	
6-pole	25 A	8146/ 5- V11- 604- 60- 0010	227	170	172

Load disconnect switches and motor starters

Load disconnect switch



8146/5-V11-304-00-0010 Art. No. 205691

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.