



- 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
- Reliable load disconnect switch with positively opening main contacts

WebCode **8146M**



R. STAHL's 8146/5-V11 series load disconnect switches can be used as mains connection switches for distributor systems and motor circuits. The standard variants are designed for rated operational currents of up to 80 A – currents of 16-630 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	European Union (ATEX) IECEx
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	II 2 G Ex db eb IIC T6 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), China (NEPSI), IECEx (PTB), India (PESO)

Electrical Data

DC rated operational voltage	-999 V
Rated operational current	25 A (T6)
Auxiliary contact NC	2 NO/1x delayed
Auxiliary contact NO	without
Short-circuit protection, max.	35 A
Tripping characteristic	gG
Frequency range	50 – 60 Hz

Ambient Conditions

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

Load Disconnect Switches and Motor Starters

Load disconnect switch

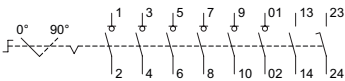


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Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Polyester, Glass fibre reinforced
Additional terminal	without
Min connec cross-sec solid AWG	AWG 10
Connec. crossec max solid AWG	AWG 0
Conn. terminal HIKO min. AWG	AWG 16
Conn. terminal HIKO solid max.	AWG 10
Conn. term HIKO max f.stranded	AWG 12
Construction type	Standard
Dimension A	227 mm
Dimension A inch	8.94 in
Dimension B	170 mm
Dimension B inch	6.69 in
Dimension C	172 mm
Dimension C inch	6.77 in
Service life, min.	10 ⁵ operating cycles
Handle colour	Yellow shroud, red handle
Seal	Silicone, foamed
Lockable in	3x in 0
Detailed number of poles	6-pole
Weight	2.839 kg
Weight	6.26 lb

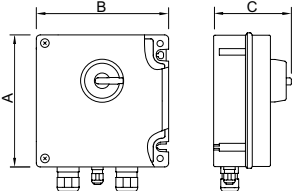
Components	
Entry type	Standard 8161, moulded material
Cable gland	4 x M25 Ø 7 ... 17 mm 1x M20 Ø 4 ... 13mm with plug

Technical Drawings – Subject to Alterations



81...V...-6...-60...
6-pole + 1 NO
(1x ON delayed – OFF leading/1 x switching normally)

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 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
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

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.