

Load & Motor Disconnect Switches



Load disconnect switch

150 A, non-fused

8146/5-V11-D09-00-0000-0 Art. No. 286769



- 3-pole horsepower (hp) rated switch
- Non-fused
- Suitable for voltages up to 600 V AC / 240 V DC - restrictions may apply
- Pad lockable robust rotary handle
- Lightweight construction
- Fiberglass reinforced polyester (FRP)
- Suitable for low ambient temperatures
- Enclosure type 3, 4, 4X, IP66
- No conduit seals required
- Quad certified

MY R. STAHL 8146V



Our switches are specifically engineered for hazardous locations and harsh environments with a corrosion resistant enclosure and wide temperature range. Ideal for close proximity installation of field equipment such as control panels, motors, skids or machinery. Whether the requirement is for disconnect switches to completely de-energize for service or maintenance tasks, or transfer switches to ensure continuous power supply to essential equipment, our solutions offer unmatched reliability. With our standard solutions, entries are not pre-installed, providing users with the flexibility to customized their own entries based on size, location and type. Built to withstand demanding conditions while ensuring safety and ease of use in various applications.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) Canada IECEX USA
Application range (zones)	1, 2
IECEX gas certificate	IECEX PTB 06.0090
IECEX gas explosion protection	Ex db eb IIC T4 Gb
IECEX dust certificate	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T130°C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T4 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T130°C Db
FMus certificate	FM18US0275X
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G, T4; Zone 1, AEx db eb IIC T4 Gb; Enclosure Type 3, 4, 4X
cFM certificate	FM18CA0132X
Marking cFM	Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G, T4; Enclosure Type 3, 4, 4X
Marking cFM note	Zone 2 IIC per Canadian Electrical Code Table 18
Certificates	ATEX (PTB), Canada (FM), IECEX (PTB), USA (FM)

Load & Motor Disconnect Switches

STAHL

Load disconnect switch

150 A, non-fused

8146/5-V11-D09-00-0000-0 Art. No. 286769

Electrical Data

Rated operational voltage AC	480 V
Rated operational voltage DC 1-pole	60 V
Rated operational voltage DC 2-pole	125 V
Rated operational voltage DC 3-pole	240 V
Rated operational current	150 A
Frequency range	50 – 60 Hz
Horsepower rating	100 hp
Horsepower rating note	Horsepower rating (hp) in relation to rated operating voltage 480 V AC
Auxiliary contact NC	without
Auxiliary contact NO	without
Short circuit protection (sym RMS)	25 kA
Additional short-circuit protection	Additional fuse necessary
Short-circuit protection note	Required back-up fuse in the electrical circuit

Auxiliary Power

Nominal voltage V _{nom}	480 V AC
----------------------------------	----------

Ambient Conditions

Ambient temperature °C	-50°C ... +55°C
Ambient temperature °F	-58°F ... +131°F

Mechanical Data

Degree of protection (IP)	IP66
Enclosure type (UL50 & UL50E)	3, 4, 4X
Enclosure material	Polyester, Fiberglass Reinforced Polyester (FRP)
Additional terminal	without
Connection cross section, stranded min.	10 AWG
Connection cross section, stranded max.	300 kcmil
Seal	Silicone, foamed
Detailed number of poles	3-pole
Construction type	Standard
Width	340.5 mm
Width, inches	13.41 in
Height	681.5 mm
Height in inches	26.83 in
Depth	243 mm
Depth in inches	9.57 in
Service life, min.	10 ⁵ operating cycles
Handle color	Black
Protective collar color	Black
Lockable in	OFF – 3 positions
Weight	18.1 kg
Weight	40 lb

Components

Entries	without
---------	---------

Load & Motor Disconnect Switches

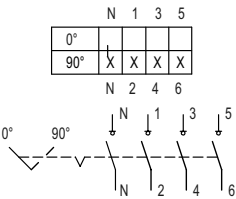


Load disconnect switch

150 A, non-fused

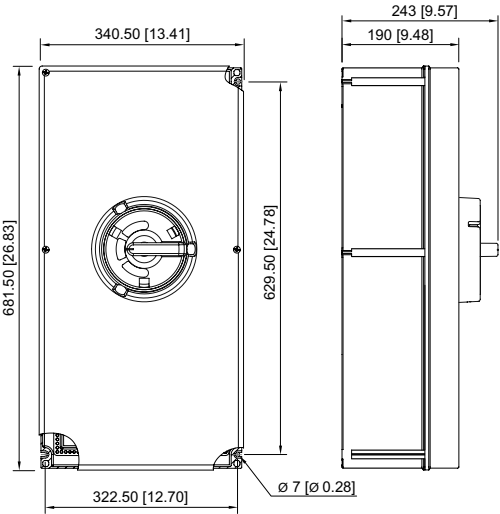
8146/5-V11-D09-00-0000-0 Art. No. 286769

Technical Drawings – Subject to Alterations



Switching arrangement 8544/1-4 and 8549/1-4

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



- 7146/5-V11-D32-00-0000-0
- 7146/5-V11-D08-00-0000-0
- 7146/5-V11-D09-00-0000-0
- 7146/5-V11-D32-AA-0000-0
- 7146/5-V11-D08-AA-0000-0
- 8146/5-V11-D32-00-0000-0
- 8146/5-V11-D08-00-0000-0
- 8146/5-V11-D09-00-0000-0

Load & Motor Disconnect Switches

STAHL

Load disconnect switch

150 A, non-fused

8146/5-V11-D09-00-0000-0 Art. No. 286769

Accessories

Ex e cable glands for MC, MC-HL, combined and "TECK" armouring Series TMC

Art. No.



Thread size: NPT1/2
Clamping range: 8.7 ... 12.7 mm
Clamping range inch: 0.34 ... 0.5 in
Nickel-plated brass

254316

Thread size: NPT1/2
Clamping range: 13 ... 17 mm
Clamping range inch: 0.51 ... 0.67 in
Nickel-plated brass

254317

Thread size: NPT3/4
Clamping range: 15 ... 23.3 mm
Clamping range inch: 0.59 ... 0.92 in
Nickel-plated brass

106090

Thread size: NPT1
Clamping range: 19.8 ... 29.2 mm
Clamping range inch: 0.78 ... 1.15 in
Nickel-plated brass

106091

Thread size: NPT1-1/4
Clamping range: 27.5 ... 35.2 mm
Clamping range inch: 1.08 ... 1.39 in
Nickel-plated brass

254320

Thread size: NPT1-1/2
Clamping range: 33.5 ... 41.1 mm
Clamping range inch: 1.32 ... 1.62 in
Nickel-plated brass

254321

Thread size: NPT2
Clamping range: 45 ... 53 mm
Clamping range inch: 1.77 ... 2.09 in
Nickel-plated brass

254323

Thread size: NPT2-1/2
Clamping range: 52.1 ... 58.9 mm
Clamping range inch: 2.05 ... 2.32 in
Nickel-plated brass

254324

Thread size: NPT2-1/2
Clamping range: 57.1 ... 64.6 mm
Clamping range inch: 2.25 ... 2.54 in
Nickel-plated brass

254325

Thread size: NPT3
Clamping range: 64.6 ... 75.3 mm
Clamping range inch: 2.54 ... 2.96 in
Nickel-plated brass

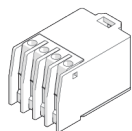
254326

Thread size: NPT3-1/2
Clamping range: 74 ... 88.5 mm
Clamping range inch: 2.91 ... 3.48 in
Nickel-plated brass

254327

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.

Load & Motor Disconnect Switches



Load disconnect switch
150 A, non-fused
8146/5-V11-D09-00-0000-0 Art. No. 286769

Spare Parts

Load/motor switch / Load disconnect switch		Art. No.
	100 A, 125 A and 150 A Number of poles: 3 P Type: 8549/1-32 Load/motor switch / Load disconnect switch	171181

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.