

8146/5-V11-D08-00-0000-0 Art. No. 286767





- · 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 T5 Gb
IECEx dust certificate	IECEx PTB 06.0090
IECEx dust explosion protection	Ex tb IIIC T95 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	
FMus certificate	FM18US0275X
cFM certificate	FM18CA0132X
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
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 disconnect switch 125 A, non-fused

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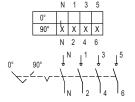
Rated operational voltage AC 600 V Rated operational voltage DC 1-pole 60 V Rated operational voltage DC 2-pole 25 V Rated operational voltage DC 3-pole 240 V Rated operational current 125 A Horsepower rating 100 hp Horsepower rating note Horsepower rating (hp) in relation to rated operating voltage 480 V AC Auxiliary contact NC without Short circuit protection (sym RMS) 25 kA Additional short-circuit protection Required back-up fuse in the electrical circuit Frequency range 50 - 60 Hz Auxiliary Power Nominal voltage V _w 480 V AC Ambient Conditions Ambient temperature °C -50°C +55°C Ambient temperature °F -58°F +131°F Mechanical Data Polyester, Fiberglass Reinforced Polyester (FRP) Meditional terminal without Connection cross section, stranded min. 10 AWG Connection cross section, stranded min. 10 AWG Construction type Standard Width 30.5 mm Height in inches	Electrical Data	
Rated operational voltage DC 3-pole 125 V Rated operational voltage DC 3-pole 240 V Rated operational current 125 A 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 NG without Short circuit protection (sym RMS) 25 kA Additional short-circuit protection Additional fuse necessary Short-circuit protection (sym RMS) Additional fuse necessary Short-circuit protection rote Required back-up fuse in the electrical circuit Frequency range 50 - 60 Hz Auxiliary Power Nominal voltage V _m Nominal voltage V _m 480 V AC Ambient Emperature °C -50°C +55°C Ambient Emperature °C -58°F +131°F Mechanical Data Degree of protection (IP) Degree of protection (IP) IP66 Enclosure material Polyester, Fiberglass Reinforced Polyester (FRP) Additional terminal On William (Auxiliary Connection cross section, stranded min. 10 William (Auxiliary Connection cross section, stran	Rated operational voltage AC	600 V
Rated operational current 125 A 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 NC 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 Frequency range 50 – 60 Hz Auxiliary Power 480 V AC Ambient Conditions Ambient Conditions Ambient temperature "F -58"F +131"F Mechanical Data -58"F +131"F Mechanical Data Polyester, Fiberglass Reinforced Polyester (FRP) Additional terminal without Connection cross section, stranded min. 10 AWG Connection cross section, stranded min. 10 AWG Construction type Standard Width 340.5 mm Width, inches 13.41 in Height in inches 26.83 in Depth 26.83 in Depth in inch	Rated operational voltage DC 1-pole	60 V
Rated operational current 125 A 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 NC 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 Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V _m 480 V AC Ambient Conditions Ambient temperature °C -50 °C +55 °C Ambient temperature °F -58 °F +131 °F McChanical Data Pegue of protection (IP) Degree of protection (IP) IP66 Enclosure stype (UL50 & UL50 & UL	Rated operational voltage DC 2-pole	125 V
Horsepower rating note Horsepower rating (hp) in relation to rated operating voltage 480 V AC Auxiliary contact NC without Auxiliary contact NC without Short circuit protection (sym RMS) 25 kA Additional short-circuit protection note Required back-up fuse in the electrical circuit Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V _{oor} 480 V AC Ambient Conditions Ambient Conditions Ambient temperature "C -50°C+55°C Ambient temperature "F -58°F+131°F Mechanical Data Degree of protection (IP) IP68 Enclosure material Polyester, Fiberglass Reinforced Polyester (FRP) Additional terminal without Connection cross section, stranded min. 10 AWG Connection cross section, stranded mix. 300 kmil Connection cross section, stranded mix. 300 kmil Construction type Standard Width 340.5 mm Width, inches 13.41 in Height in inches 9.57 in Service iffe, min. 10° operating cycles Handle color Black Protective collar color Speek Seal Silicone, foamed Lockable in OFF-3 positions Detailed number of poles Weight 40 lb Components	Rated operational voltage DC 3-pole	240 V
Horsepower rating note Auxiliary contact NC without Auxiliary contact NC without Auxiliary contact NC without Additional short-circuit protection Short circuit protection note Required back-up fuse in the electrical circuit Frequency range S0 – 60 Hz Auxiliary Power Nominal voltage V _{van} Ambient temperature "C - 58"F +131"F Mechanical Data Degree of protection (IP) Enclosure put (IL50 & UL50E) S1, 4, 4X Enclosure material Polyester, Fiberglass Reinforced Polyester (FRP) Additional terminal Connection cross section, stranded min. Construction type Standard Width S40,5 mm Width, inches Height He	Rated operational current	125 A
Auxiliary contact NC without Auxiliary contact NO without Short circuit protection (sym RMS) 25 kA Additional short-circuit protection note Required back-up fuse in the electrical circuit Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V	Horsepower rating	100 hp
Auxiliary contact NO without Short circuit protection (sym RMS) 25 kA Additional short-circuit protection note Required back-up fuse in the electrical circuit Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V _m 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 type Standard Width 340.5 mm Width, inches 13.41 in Height 681.5 mm Height 681.5 mm Height in inches 9,57 in Service life, min. 10° operating cycles Handle color Black Protective collar color Black Seal Sillcone, foamed Lockable in OFF – 3 positions Detailed number of poles Weight 40 lb Components	Horsepower rating note	Horsepower rating (hp) in relation to rated operating voltage 480 V AC
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 Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V	Auxiliary contact NC	without
Additional short-circuit protection Additional fuse necessary Short-circuit protection note Required back-up fuse in the electrical circuit Frequency range 50 – 60 Hz Auxiliary Power Nominal voltage V	Auxiliary contact NO	without
Short-circuit protection note Required back-up fuse in the electrical circuit Frequency range 50 − 60 Hz Auxillary Power Nominal voltage V _{mor} 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 Consection cross section, stranded max. 300 kmil Construction type Standard Width 340.5 mm Width 340.5 mm Width 681.5 mm Height in inches 13.44 in Height 9.57 in Service life, min. 10° operating cycles Handle color Black Protective collar color Special Silicone, foamed Lockable in OFF - 3 positions Detailed number of poles 3-pole Weight 40 lb Components	Short circuit protection (sym RMS)	25 kA
Frequency range 50 − 60 Hz	Additional short-circuit protection	Additional fuse necessary
Auxiliary Power Nominal voltage V _{mer} 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 Without Connection cross section, stranded min. 10 AWG Connection cross section, stranded max. 300 kcmil 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 243 mm Depth 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF -3 positions Detailed number of poles 3-pole Weight 40 lb Components	Short-circuit protection note	Required back-up fuse in the electrical circuit
Nominal voltage V _{mm} 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 kmil Construction type Standard Width 340.5 mm Width, inches 13.41 in Height 681.5 mm Height in inches 26.83 in Depth 084.3 mm Depth in inches 9.57 in Service life, min. 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF -3 positions Detailed number of poles Weight 40 lb Components	Frequency range	50 – 60 Hz
Ambient Conditions Ambient temperature °C	Auxiliary Power	
Ambient temperature °C	Nominal voltage V _{nom}	480 V AC
Ambient temperature °F -58°F +131°F Mechanical Data Degree of protection (IP)	Ambient Conditions	
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 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° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF - 3 positions Detailed number of poles 3-pole Weight 40 lb Components	Ambient temperature °C	-50°C +55°C
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 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° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Ambient temperature °F	-58°F +131°F
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 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® operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 40 lb Components	Mechanical Data	
Enclosure material Polyester, Fiberglass Reinforced Polyester (FRP) Additional terminal without Connection cross section, stranded min. 10 AWG Connection cross section, stranded max. 300 kcmil 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° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 40 lb Components	Degree of protection (IP)	IP66
Additional terminal without Connection cross section, stranded min. 10 AWG Connection cross section, stranded max. 300 kcmil 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 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 40 lb Components	Enclosure type (UL50 & UL50E)	3, 4, 4X
Connection cross section, stranded min. 10 AWG Connection cross section, stranded max. 300 kcmil 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 243 mm Depth in inches 9.57 in Service life, min. 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Enclosure material	Polyester, Fiberglass Reinforced Polyester (FRP)
Connection cross section, stranded max. 300 kcmil 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. 105 operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF - 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Additional terminal	without
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° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Connection cross section, stranded min.	10 AWG
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° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Connection cross section, stranded max.	300 kcmil
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 ^s operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Construction type	Standard
Height 681.5 mm Height in inches 26.83 in Depth 243 mm Depth in inches 9.57 in Service life, min. 105 operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF - 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Width	340.5 mm
Height in inches Depth Depth 243 mm Depth in inches 9.57 in Service life, min. Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in Detailed number of poles Weight Weight 40 lb Components	Width, inches	13.41 in
Depth 243 mm Depth in inches 9.57 in Service life, min. 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Height	681.5 mm
Depth in inches Service life, min. 10° operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles Weight 18.1 kg Weight Components	Height in inches	26.83 in
Service life, min. 10 ⁵ operating cycles Handle color Black Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Depth	243 mm
Handle color Protective collar color Black Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles Weight 18.1 kg Weight 40 lb Components	Depth in inches	9.57 in
Protective collar color Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Service life, min.	10⁵ operating cycles
Seal Silicone, foamed Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Handle color	Black
Lockable in OFF – 3 positions Detailed number of poles 3-pole Weight 18.1 kg Weight 40 lb Components	Protective collar color	Black
Detailed number of poles Weight Weight 40 lb Components	Seal	Silicone, foamed
Weight 18.1 kg Weight 40 lb Components	Lockable in	OFF – 3 positions
Weight 40 lb Components	Detailed number of poles	3-pole
Components	Weight	18.1 kg
	Weight	40 lb
Entries without	Components	
	Entries	without



Load disconnect switch 125 A, non-fused

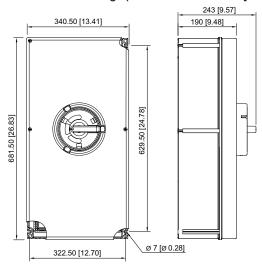
8146/5-V11-D08-00-0000-0 Art. No. 286767

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-D09-00-000-0 7146/5-V11-D32-AA-0000-0 7146/5-V11-D32-00-0000-0 8146/5-V11-D32-00-0000-0 8146/5-V11-D09-00-000-0

Accessories

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

Art. No.



Load disconnect switch 125 A, non-fused 8146/5-V11-D08-00-0000-0 Art. No. 286767



	Thread size: NPT1/2 Clamping range: 8.7 12.7 mm	254316
	Clamping range: 6.7 12.7 mm Clamping range inch: 0.34 0.5 in	
L	Nickel-plated brass	
	Thread size: NPT1/2	254317
	Clamping range: 13 17 mm Clamping range inch: 0.51 0.67 in	
	Nickel-plated brass	
Ī	Thread size: NPT3/4	106090
	Clamping range: 15 23.3 mm	
	Clamping range inch: 0.59 0.92 in	
\vdash	Nickel-plated brass Thread size: NPT1	106091
	Clamping range: 19.8 29.2 mm	100091
- 1	Clamping range inch: 0.78 1.15 in	
L	Nickel-plated brass	
	Thread size: NPT1-1/4	254320
	Clamping range: 27.5 35.2 mm	
	Clamping range inch: 1.08 … 1.39 in Nickel-plated brass	
\vdash	Thread size: NPT1-1/2	254321
	Clamping range: 33.5 41.1 mm	
	Clamping range inch: 1.32 1.62 in	
\vdash	Nickel-plated brass	
	Thread size: NPT2 Clamping range: 38.3 47.1 mm	254322
- 1	Clamping range: 36.3 47.1 mm Clamping range inch: 1.51 1.85 in	
	Nickel-plated brass	
	Thread size: NPT2	254323
	Clamping range: 45 53 mm	
	Clamping range inch: 1.77 2.09 in Nickel-plated brass	
\vdash	Thread size: NPT2-1/2	254324
	Clamping range: 52.1 58.9 mm	204024
	Clamping range inch: 2.05 2.32 in	
\vdash	Nickel-plated brass	
	Thread size: NPT2-1/2	254325
	Clamping range: 57.1 64.6 mm Clamping range inch: 2.25 2.54 in	
	Nickel-plated brass	
	Thread size: NPT3	254326
	Clamping range: 64.6 75.3 mm	
	Clamping range inch: 2.54 2.96 in Nickel-plated brass	
\vdash	Thread size: NPT3-1/2	254327
	Clamping range: 74 88.5 mm	204021
	Clamping range inch: 2.91 3.48 in	
	Nickel-plated brass	

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 disconnect switch 125 A, non-fused 8146/5-V11-D08-00-0000-0 Art. No. 286767

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.