

Load disconnect switches and motor starters

STAHL

Manual transfer switch

80 A, fused

7146/5-V11-H07-AA-0500-0 Art. No. 286745



- 3-pole horsepower (hp) rated switch
- Suitable for voltages up to 600 V AC/240 V DC – limitations may apply
- Robust, lockable rotary actuator
- Lightweight construction
- Glass fibre reinforced polyester (GRP)
- Suitable for low ambient temperatures
- Enclosure type 3, 4, 4X, IP66
- No conduit seal required
- Class I, Div. 2/AEx Zone 2

MY R. STAHL 7146A



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	Canada USA
FMus certificate	FM18US0275X
cFM certificate	FM18CA0132X
Marking FMus	Class I, Div. 2, Groups A,B,C,D; T4; Enclosure Type 3, 4, 4X
Marking cFM	Class I, Div. 2, Groups A,B,C,D; T4; Enclosure Type 3, 4, 4X
Marking cFM note	Zone 2 IIC per Canadian Electrical Code Table 18
Certificates	Canada (FM), USA (FM)

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	80 A
Nominal power	60 hp
Nominal power note	Nominal power (hp) in relation to rated operating voltage 480 V AC
Fuse	100 A J-type
Auxiliary contact NC	without
Auxiliary contact NO	without
Short circuit protection (sym RMS)	20 kA
Frequency range	50 – 60 Hz

Load disconnect switches and motor starters



Manual transfer switch

80 A, fused

7146/5-V11-H07-AA-0500-0 Art. No. 286745

Auxiliary Power

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

Ambient Conditions

Ambient temperature	-40°C ... +55°C
Ambient temperature	-40°F ... +131°F

Mechanical Data

Degree of protection (IP)	IP66
Enclosure type (UL50 & UL50E)	3, 4, 4X
Enclosure material	Polyester, Glass fibre reinforced
Additional terminal	Main contact on terminals
Connection cross section, stranded min.	10 AWG
Connection cross section, stranded max.	1/0 AWG
Construction type	Standard
Width	681.5 mm
Width, inches	26.83 in
Height	681.5 mm
Height in inches	26.83 in
Depth	203 mm
Depth in inches	7.99 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	24 kg
Weight	52.91 lb

Components

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

Load disconnect switches and motor starters

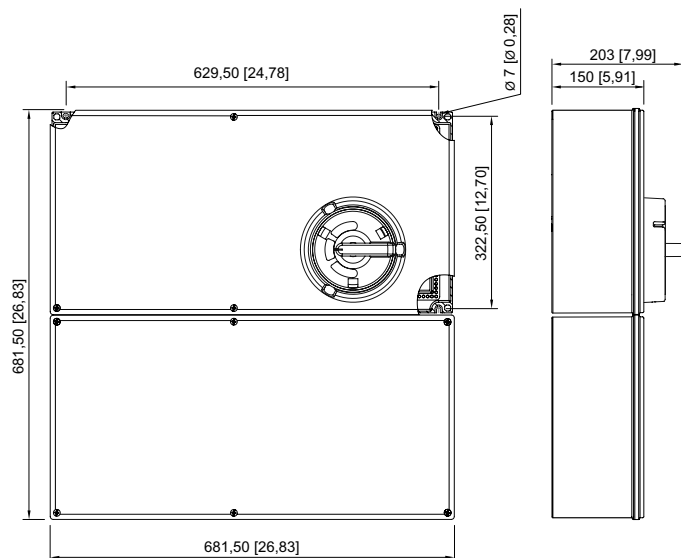


Manual transfer switch

80 A, fused

7146/5-V11-H07-AA-0500-0 Art. No. 286745

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



7146/5-V11-H06-AA-0500-0
7146/5-V11-H07-AA-0500-0

Accessories

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

Art. No.

Load disconnect switches and motor starters



Manual transfer switch

80 A, fused

7146/5-V11-H07-AA-0500-0 Art. No. 286745



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: 38.3 ... 47.1 mm Clamping range inch: 1.51 ... 1.85 in Nickel-plated brass	254322
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

Load disconnect switches and motor starters

STAHL

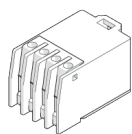
Manual transfer switch

80 A, fused

7146/5-V11-H07-AA-0500-0 Art. No. 286745

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

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.