

Load disconnect switches and motor starters

STAHL

Load disconnect switch

80 A, non-fused

7150/5-V11-D07-00-0000-0 Art. No. 286701



- 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
- Stainless steel 1.4404 (AISI 316L), brush finished
- 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 7150A



Our switches are designed specifically for hazardous areas and harsh environments and have a corrosion-resistant enclosure and a wide temperature range. Ideal for installation in the immediate vicinity of field devices such as panels, motors, skids or machines. No matter whether these are disconnectors which fully interrupt the power supply during service or maintenance work, or change-over switches which ensure a continuous power supply to important devices, our solutions offer unsurpassed reliability. Our standard solutions do not have pre-installed inputs, giving users the flexibility to adapt their own inputs depending on size, location and type. They are designed to withstand challenging conditions while ensuring safety and ease of use in a range of applications.

Technical Data

Explosion Protection

Area of application	Canada USA
FMus certificate	FM17US0039X
cFM certificate	FM17CA0023X
Marking FMus	Class I, Div. 2, Groups A,B,C,D; T5; Enclosure Type 3, 4, 4X
Marking cFM	Class I, Div. 2, Groups A,B,C,D; T5; Enclosure Type 3, 4, 4X
Marking cFM note	Zone 2 IIC according to 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
Auxiliary contact NC	without
Auxiliary contact NO	without
Short circuit protection (sym RMS)	20 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

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Auxiliary Power

Nominal voltage 480 V AC

Ambient Conditions

Ambient temperature -50°C ... +55°C

Ambient temperature -58°F ... +131°F

Mechanical Data

Degree of protection (IP) IP66

Enclosure type (UL50 & UL50E) 3, 4, 4X

Enclosure material Stainless steel 1.4404, (AISI 316L), brush finished

Additional terminal without

Connection cross section, stranded min. 10 AWG

Connection cross section, stranded max. 1/0 AWG

Construction type Standard

Width 300 mm

Width, inches 11.81 in

Height 400 mm

Height in inches 15.75 in

Depth 195 mm

Depth in inches 7.68 in

Service life, min. 10⁵ 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

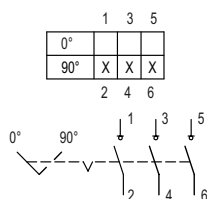
Weight 12.7 kg

Weight 28 lb

Components

Entries without

Technical Drawings – Subject to Alterations



Switching arrangement 8544/1-3 and 8549/1-3

Load disconnect switches and motor starters

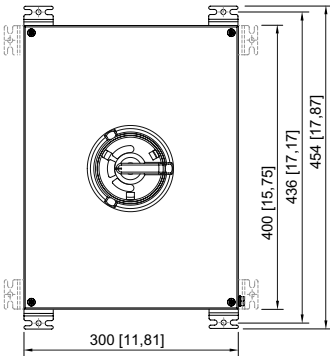
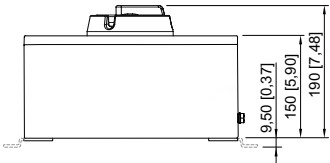


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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



7150/5-V11-D06-00-0000-0
7150/5-V11-D07-00-0000-0
8150/5-V11-D06-00-0000-0
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Accessories

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

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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

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Metal Ex e conduit hubs Series 8166

Art. No.

Thread size: NPT1/2
Typ: 8166/11-01-NE

139082

Thread size: NPT3/4
Typ: 8166/11-02-NE

139083

Thread size: NPT1
Typ: 8166/11-03-NE

139084

Thread size: NPT1-1/4
Typ: 8166/11-04-NE

139085

Thread size: NPT1-1/2
Typ: 8166/11-05-NE

139086

Thread size: NPT2
Typ: 8166/11-06-NE

139087

Thread size: NPT2-1/2
Typ: 8166/11-07-NE

139088

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

Load/motor switch / Load disconnect switch

Art. No.



60 A, 63 A and 80 A

No. of poles: 3 P

Type: 8544/1-32

Load/motor switch / Load disconnect switch

171154

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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.