

# Load disconnect switches and motor starters



## Load disconnect switch

100 A, non-fused

7150/5-V11-D32-00-0000-0 Art. No. 286705



- 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<br>USA                                                   |
| FMus certificate    | FM17US0039X                                                     |
| cFM certificate     | FM17CA0023X                                                     |
| Marking FMus        | Class I, Div. 2, Groups A,B,C,D; T4;<br>Enclosure Type 3, 4, 4X |
| Marking cFM         | Class I, Div. 2, Groups A,B,C,D; T4;<br>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        | 600 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           | 100 A                                                              |
| Nominal power                       | 75 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)  | 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                                                         |

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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 |

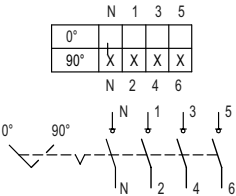
Mechanical Data

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| 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. | 300 kcmil                                           |
| Construction type                       | Standard                                            |
| Width                                   | 360 mm                                              |
| Width, inches                           | 14.17 in                                            |
| Height                                  | 727 mm                                              |
| Height in inches                        | 28.62 in                                            |
| Depth                                   | 243 mm                                              |
| Depth in inches                         | 9.57 in                                             |
| Service life, min.                      | 10 <sup>5</sup> 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                                  | 26.3 kg                                             |
| Weight                                  | 58 lb                                               |

Components

|         |         |
|---------|---------|
| Entries | without |
|---------|---------|

Technical Drawings – Subject to Alterations



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

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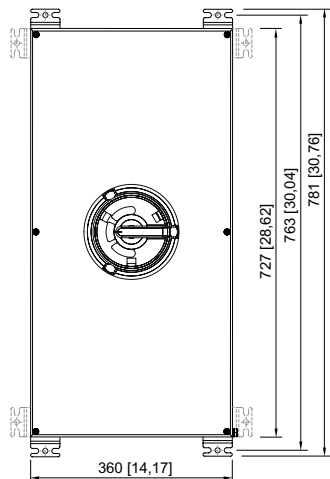
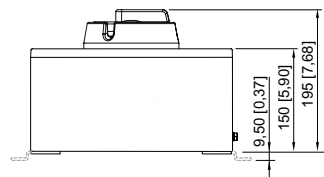


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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



7150/5-V11-D08-00-0000-0  
7150/5-V11-D09-00-0000-0  
7150/5-V11-D32-00-0000-0  
8150/5-V11-D08-00-0000-0  
8150/5-V11-D09-00-0000-0  
8150/5-V11-D32-00-0000-0

## Accessories

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

Art. No.

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## Load disconnect switch

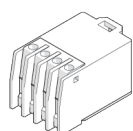
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|                                                                                  |                                                                                                                           |        |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------|
|  | Thread size: NPT1/2<br>Clamping range: 8.7 ... 12.7 mm<br>Clamping range inch: 0.34 ... 0.5 in<br>Nickel-plated brass     | 254316 |
|                                                                                  | Thread size: NPT1/2<br>Clamping range: 13 ... 17 mm<br>Clamping range inch: 0.51 ... 0.67 in<br>Nickel-plated brass       | 254317 |
|                                                                                  | Thread size: NPT3/4<br>Clamping range: 15 ... 23.3 mm<br>Clamping range inch: 0.59 ... 0.92 in<br>Nickel-plated brass     | 106090 |
|                                                                                  | Thread size: NPT1<br>Clamping range: 19.8 ... 29.2 mm<br>Clamping range inch: 0.78 ... 1.15 in<br>Nickel-plated brass     | 106091 |
|                                                                                  | Thread size: NPT1-1/4<br>Clamping range: 27.5 ... 35.2 mm<br>Clamping range inch: 1.08 ... 1.39 in<br>Nickel-plated brass | 254320 |
|                                                                                  | Thread size: NPT1-1/2<br>Clamping range: 33.5 ... 41.1 mm<br>Clamping range inch: 1.32 ... 1.62 in<br>Nickel-plated brass | 254321 |
|                                                                                  | Thread size: NPT2<br>Clamping range: 38.3 ... 47.1 mm<br>Clamping range inch: 1.51 ... 1.85 in<br>Nickel-plated brass     | 254322 |
|                                                                                  | Thread size: NPT2<br>Clamping range: 45 ... 53 mm<br>Clamping range inch: 1.77 ... 2.09 in<br>Nickel-plated brass         | 254323 |
|                                                                                  | Thread size: NPT2-1/2<br>Clamping range: 52.1 ... 58.9 mm<br>Clamping range inch: 2.05 ... 2.32 in<br>Nickel-plated brass | 254324 |
|                                                                                  | Thread size: NPT2-1/2<br>Clamping range: 57.1 ... 64.6 mm<br>Clamping range inch: 2.25 ... 2.54 in<br>Nickel-plated brass | 254325 |
|                                                                                  | Thread size: NPT3<br>Clamping range: 64.6 ... 75.3 mm<br>Clamping range inch: 2.54 ... 2.96 in<br>Nickel-plated brass     | 254326 |
|                                                                                  | Thread size: NPT3-1/2<br>Clamping range: 74 ... 88.5 mm<br>Clamping range inch: 2.91 ... 3.48 in<br>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. Retro-fitting is not possible for this.

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Spare Parts

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