MS450-50

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## **General Information**

Extended Product Type: MS450-50

**Product ID:** 1SAM450000R1007 **EAN:** 4013614265198

Catalog Description: MS450-50 Manual Motor Starter

**Long Description:** The MS450-50 manual motor starter is a 55

mm width devices with a rated operational current of le = 50.0 A. This device is used to manually switch on and off motors and to protect them reliably and without the need for a fuse from short-circuits, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity Ics = 25 kA at 400 VAC and the trip class 10. Further features are the buildin disconnect function, temperature compensation, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter is suitable for three- and single-phase applications. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are

available as accessory.



### Categories

Products » Low Voltage Products and Systems » Circuit Breakers » Manual Motor Starters

Products » Low Voltage Products and Systems » Control Products » Manual Motor Starters » Manual Motor

Starters

### **Accessories Show accessory images**

**Ordering** 

**EAN:** 4013614265198

Minimum Order Quantity: 1 piece
Customs Tariff Number: 85362010

**Container Information** 

Package Level 1 Units:1 piecePackage Level 1 Width:62.5 mmPackage Level 1 Length:165.0 mmPackage Level 1 Height:147.0 mmPackage Level 1 Gross Weight:1.087 kg

**Dimensions** 

Product Net Width:55.0 mmProduct Net Height:140.0 mmProduct Net Depth:149.0 mmProduct Net Weight:1.027 kg

#### **Technical**

Rated Service Short-Circuit Breaking (230V AC) 100.0 kA

Capacity (I<sub>cs</sub>): (400V AC) 25.0 kA

(440V AC) 15.0 kA (500V AC) 5.0 kA (690V AC) 2.0 kA

Rated Ultimate Short-Circuit Breaking (230V AC) 100.0 kA

Capacity (I<sub>cu</sub>):

(400V AC) 50.0 kA (440V AC) 50.0 kA (500V AC) 10.0 kA (690V AC) 4.0 kA

**Rated Instantaneous Short-Circuit** 

Current Setting (I;):

650.0 A

**Setting Range:** 40 ... 50 A

Rated Operational Power AC-3 (P<sub>o</sub>): (400V) Three Phase 22.00 kW

**Rated Operational Voltage:** Main Circuit 690 V AC

Main Circuit 450 V DC

50 A Rated Operational Current (I<sub>o</sub>): Rated Operational Current AC-3 (I<sub>o</sub>): 50.00 A

Rated Frequency (f): Main Circuit 50 Hz

Main Circuit 60 Hz

**Rated Impulse Withstand Voltage** 

(U<sub>imp</sub>):

Main Circuit 6 kV

Rated Insulation Voltage (U;): 690 V

Power Loss: Per Pole 4.3 ... 6.7 W

Number of Poles: 3

**Conventional Free-air Thermal** 

Current (I<sub>th</sub>):

Main Circuit 50.00 A

**Degree of Protection:** Housing IP20

Main Circuit Terminals IP00

**Pollution Degree:** 3

**Electrical Durability:** 25000 cycle **Mechanical Durability:** 50000 cycle

**Connecting Capacity-Main Circuit:** Flexible with Ferrule 1x 0.75 ... 25 mm<sup>2</sup>

Flexible with Ferrule 2x 0.75 ... 16 mm<sup>2</sup>

Solid 1/2x 0.75 ... 16 mm<sup>2</sup> Stranded 1x 0.75 ... 35 mm<sup>2</sup> Stranded 2x 0.75 ... 25 mm2 Main Circuit 3 ... 4.5 N·m

**Tightening Torque:** Wire Stripping Length: Main Circuit 13 mm

**Recommended Screw Driver:** M5

**Mounting Position:** Position 1 to 6 **Actuator Type:** Rotary Handle **Contact Position Indication:** ON / OFF / TRIP

Mounting on DIN Rail: TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715

TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Standards: IEC/EN 60947-1

> IEC/EN 60947-2 IEC/EN 60947-4-1

**UL 508** 

CSA 22.2 No. 14

# **Environmental**

**Ambient Air Temperature:** Operation -20 ... +70 °C Operation Compensated -20 ... +60 °C

Storage -50 ... +80 °C

**Ambient Air Temperature** 

Compensation:

Yes

**Maximum Operating Altitude** 

Permissible:

2000 m

Resistance to Shock acc. to IEC

60068-2-27:

11 ms Pulse 250 m/s<sup>2</sup>

Resistance to Vibrations acc. to IEC

60068-2-6:

2g / 5 ... 150 Hz

RoHS Status: Following EU Directive 2002/95/EC August 18, 2005 and amendment

**Technical UL/CSA** 

Maximum Operating Voltage UL/CSA: Main Circuit 600 V AC

Horse Power Rating UL/CSA: 200V AC Three Phase 15.00 Hp

208V AC Three Phase 15.00 Hp

220 ... 240V AC Three Phase 20.00 Hp 440 ... 480V AC Three Phase 40.00 Hp 550 ... 600V AC Three Phase 50.00 Hp

Ampere Rating UL/CSA: 50.00 A

General Use Rating UL/CSA: 600V AC 50.00 A

Connecting Capacity-Main Circuit UL/CSA:

Flexible 2x 18 ... 2 AWG Stranded 2x 18 ... 2 AWG

UL\_E195536

Tightening Torque UL/CSA: Main Circuit 27 ... 40 in·lb

**Certificates and Declarations (Document Number)** 

**ATEX Certificate:** 1SAA937000-3901 **BV Certificate:** 1SAA937000-0202 **CCC Certificate:** 1SAA937000-3803 cUL Certificate: cUL E195536 **Declaration of Conformity - CE:** 1SAD938503-0050 **DNV Certificate:** 1SAA937000-0302 **GL Certificate:** 1SAA937000-0404 **GOST Certificate:** 1SAA937000-2703 LR Certificate: 1SAA937000-0504 **RMRS Certificate:** 1SAA918000-0703 **RoHS Information:** 1SAA918002-4401 UL\_E167205 **UL Certificate:** 

**Classifications** 

Object Classification Code: F

**E-nummer:** 3112214 **UNSPSC:** 39121521