MS116-20

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General Information

Extended Product Type: MS116-20

Product ID: 1SAM250000R1013 **EAN:** 4013614405655

Catalog Description: MS116-20 Manual Motor Starter

Long Description: The MS116-20 manual motor starter is a

compact 45 mm width devices with a rated operational current of le = 20.0 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 shortcircuits, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity Ics = 10 kA at 400 VAC and the trip class 10A. Further features are the build-in disconnect function, temperature compensation, tripfree mechanism and a rotary handle with a clear switch position indication. The manual motor starter is suitable for three- and single-phase applications. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and locking devices for protection against unauthorized changes 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: 4013614405655

Minimum Order Quantity: 1 piece
Customs Tariff Number: 85362010

Container Information

Package Level 1 Units: 1 piece Package Level 1 Width: 92.0 mm Package Level 1 Length: 102.0 mm Package Level 1 Height: 50.0 mm Package Level 1 Gross Weight: 0.325 kg Package Level 2 Units: 40 piece Package Level 2 Width: 280.0 mm Package Level 2 Length: 395.0 mm Package Level 2 Height: 210.0 mm Package Level 2 Gross Weight: 13.386 kg Package Level 2 EAN: 4013614408731 **Dimensions**

Product Net Width: 45.0 mm **Product Net Height:** 97.8 mm **Product Net Depth:** 86.6 mm **Product Net Weight:** 0.310 kg

Technical

Rated Service Short-Circuit Breaking (230V AC) 10.0 kA

Capacity (I_{cs}): (400V AC) 10.0 kA

(440V AC) 3.0 kA (500V AC) 3.0 kA (690V AC) 2.0 kA

Rated Ultimate Short-Circuit Breaking (230V AC) 15.0 kA

(400V AC) 15.0 kA Capacity (I_{CII}):

(440V AC) 6.0 kA (500V AC) 4.0 kA (690V AC) 2.0 kA

Rated Instantaneous Short-Circuit

Current Setting (I,):

300.0 A

Setting Range: 18 ... 25 A

(400V) Three Phase 9.00 kW Rated Operational Power AC-3 (P_a):

Rated Operational Voltage: Main Circuit 690 V AC

20 A Rated Operational Current (I_o): Rated Operational Current AC-3 (I_p): 20.00 A

Rated Frequency (f): Main Circuit 50 Hz Main Circuit 60 Hz

Rated Impulse Withstand Voltage

(U_{imp}):

Main Circuit 6 kV

Rated Insulation Voltage (U;): 690 V

Power Loss: Per Pole 1.5 ... 2.3 W

Number of Poles:

Mounted Auxiliary Contacts: 1 NO, 1 NC

Conventional Free-air Thermal

Current (I_{th}):

Main Circuit 20.00 A

Degree of Protection: IP20 **Pollution Degree:**

Electrical Durability: 50000 cycle **Mechanical Durability:** 100000 cycle

Connecting Capacity-Main Circuit: Flexible with Ferrule 1/2x 0.75 ... 6 mm²

Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm²

Flexible 1/2x 1 ... 2.5 mm² Flexible 1/2x 2.5 ... 6 mm² Rigid 1/2x 1 ... 2.5 mm² Rigid 1/2x 2.5 ... 6 mm²

Connecting Capacity-Auxiliary

Flexible with Ferrule 1/2x 0.75 ... 1.5 mm² Circuit:

Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm²

Flexible 1/2x 0.75 ... 1.5 mm² Rigid 1/2x 1 ... 1.5 mm²

Auxiliary Circuit 0.9 N·m **Tightening Torque:**

> Control Circuit 0.9 N·m Main Circuit 28 N·m

Wire Stripping Length: Auxiliary Circuit 8 mm

Main Circuit 10 mm

Recommended Screw Driver: Pozidriv 2 Mounting Position:Position 1 to 6Actuator Type:Rotary HandleContact 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 60947-1 UL 60947-4-1

Environmental

Ambient Air Temperature: Around the Enclosure 0 ... +40 °C

Operation -25 ... +75 °C

Operation Compensated -25 ... +55 °C

Storage -50 ... +85 °C

Ambient Air Temperature

Compensation:

Yes

Maximum Operating Altitude

Permissible:

2000 m

Resistance to Shock acc. to IEC

60068-2-27:

11 ms Pulse 12g

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: Auxiliary Circuit 250 V AC/DC

Main Circuit 600 V AC/DC

Horse Power Rating UL/CSA: 220 ... 240V AC Three Phase 5.00 Hp

440 ... 480V AC Three Phase 10.00 Hp 550 ... 600V AC Three Phase 15.00 Hp

Ampere Rating UL/CSA: 20.00 A

General Use Rating UL/CSA: 600V AC 20.00 A

Connecting Capacity-Main Circuit Flexible 1/2x 16 ... 8 AWG UL/CSA: Flexible 1/2x 16 ... 8 AWG Stranded 1/2x 16 ... 8 AWG

Connecting Capacity-Auxiliary Circuit Flexible 1/2x 16 ... 14 AWG UL/CSA: Stranded 1/2x 16 ... 14 AWG

Tightening Torque UL/CSA: Auxiliary Circuit 7 ... 1 in lb

Main Circuit 40 in lb

Contact Rating UL/CSA: B300

R300

Certificates and Declarations (Document Number)

ABS Certificate: 1SAA963000-0102 **CB** Certificate: 1SAA963000-2002 **CCC Certificate:** 1SAA963000-3803 cUL Certificate: cUL_E137861 **Declaration of Conformity - CE:** 1SAD938515-0060 **DNV Certificate:** 1SAA963000-0302 **EAC Certificate:** 1SAA963000-2701 **GL** Certificate: 1SAA963000-0402 **GOST Certificate:** 1SAA937000-2703 LR Certificate: 1SAA963000-0504 RMRS Certificate: 1SAA918000-0703 **RoHS Information:** 1SAA963001-4407

UL Certificate:	UL_E137861	
Classifications		
Object Classification Code:	F	
E-nummer:	3111951	