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General Information

Long Description:

Extended Product Type: MS496-90 **Product ID:** 1SAM570000R1009

EAN: 4013614265556

Catalog Description: MS496-90 Manual Motor Starter

> The MS496-90 manual motor starter is a 70 mm width devices with a rated operational current of le = 90.0 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 lcs = 50 kA at 400 VAC and the trip class 20. Further features are the build-in 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 and shunt trips 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

Ordering

EAN:	4013614265556
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362090

Dimensions

Product Net Width:	70 mm
Product Net Height:	165 mm
Product Net Depth:	174 mm
Product Net Weight:	2.313 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	76.5 mm
Package Level 1 Height:	171 mm
Package Level 1 Length:	190 mm
Package Level 1 Gross Weight:	2.285 kg

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

60068-2-27:

Resistance to Shock acc. to IEC 11 ms Pulse 25g

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

Main Circuit 35 ... 53 in·lb

Technical UL/CSA

Tightening Torque UL/CSA:

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	90 A
Horsepower Rating UL/CSA:	(200 V AC) Three Phase 30 Hp (208 V AC) Three Phase 30 Hp (220 240 V AC) Three Phase 30 Hp (440 480 V AC) Three Phase 75 Hp (550 600 V AC) Three Phase 100 Hp
General Use Rating UL/CSA:	(600 V AC) 90 A
Connecting Capacity Main Circuit UL/CSA:	Flexible 1x 10 2/0 AWG Flexible 1/2x 10 1/0 AWG Stranded 1x 10 2/0 AWG Stranded 1/2x 10 1/0 AWG

Additional Information **Actuator Type:** Rotary Handle **Connecting Capacity-Main Circuit:** Flexible with Ferrule 1x 2.5 ... 50 mm² Flexible with Ferrule 2x 2.5 ... 35 mm² Solid 1/2x 2.5 ... 16 mm² Stranded 1x 10 ... 70 mm² Stranded 2x 10 ... 50 mm² Conventional Free-air Thermal Main Circuit 90 A Current (Ith): Degree of Protection: Housing IP20 Main Circuit Terminals IP00 **Electrical Durability:** 25000 cycle **IIT Publishing Status:** Level 0 - Information enabled **Mechanical Durability:** 50000 cycle 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 **Mounting Position:** Position 1 to 6 **Number of Poles:** 3 **Number of Protected Poles:** 3 **Pollution Degree:** 3 Power Loss at Rated Operating Conditions per Pole 3.1 ... 5.1 W **Product Main Type:** MS496 **Product Name:** Manual Motor Starter Rated Current (In): 90 A Rated Frequency (f): Main Circuit 50 Hz Main Circuit 60 Hz Rated Impulse Withstand Voltage Main Circuit 6 kV (U_{imp}): Rated Instantaneous Short-Circuit 1170 A Current Setting (Ii): 690 V Rated Insulation Voltage (Ui): Rated Operational Current (Ie): 90 A Rated Operational Current AC-3 (Ie): 90 A Rated Operational Power AC-3 (Pe): (400 V) Three Phase 45 kW Rated Operational Voltage: Main Circuit 690 V AC Main Circuit 450 V DC Rated Service Short-Circuit (230 V AC) 100 kA (400 V AC) 50 kA Breaking Capacity (I_{cs}): (440 V AC) 50 kA (500 V AC) 5 kA (690 V AC) 3 kA Rated Service Short-Circuit 100 % Breaking Capacity, in % of Icu (Ics): **Rated Ultimate Short-Circuit** (230 V AC) 100 kA Breaking Capacity (I_{cu}): (400 V AC) 100 kA (440 V AC) 70 kA (500 V AC) 10 kA (690 V AC) 6 kA Rated Uninterrupted Current (I_{II}): 90 A **Recommended Screw Driver:** Hexagon 4 RoHS Date: 0016 **Setting Range:** 70 ... 90 A Standards: IEC/EN 60947-1 IFC/FN 60947-2 IEC/EN 60947-4-1 **UL 508** CSA 22.2 No. 14 **Tightening Torque:** Main Circuit 4 ... 6 N·m

Certificates and Declarations (Document Number)

Wire Stripping Length:

BV Certificate: 1SAA937000-0201 **CCC Certificate:** 1SAA937001-3803 **cUL Certificate:** cUL E195536 Data Sheet, Technical Information: 1SBC100173C0201 **Data Sheet, Technical Information** 1SAM500502F0009 (Part 2): Data Sheet, Technical Information 9AKK105713A1103 (Part 3):

Main Circuit 17 mm

Declaration of Conformity - CE: 1SAD938502-0050 **DNV Certificate:** 1SAA937000-0302 **EAC Certificate:** 1SAA937001-2703 **GL Certificate:** 1SAA937000-0403 **GOST Certificate:** 1SAA937000-2703 LR Certificate: 1SAA937000-0504 RMRS Certificate: 1SAA918000-0703 **RoHS Information:** 1SAA918002-4401 **UL Certificate:** UL_E167205 UL_E195536

Classifications

eClass: 7.0 27370401

ETIM 4: EC000074 - Motor protective circuit-breaker

ETIM 5: EC000074 - Motor protective circuit-breaker

Object Classification Code: F

UNSPSC: 39121521







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Product	Code	Reference	Product link
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