

MO495-90



Products Low Voltage Products and Systems Circuit Breakers Manual Motor Starters

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General Information

Extended Product Type:	MO495-90
Product ID:	1SAM560000R1009
EAN:	4013614265716
Catalog Description:	MO495-90 Manual Motor Starter Magnetic Only
Long Description:	The MO495-90 manual motor starter magnetic only is a 55 mm width device with a rated operational current of $I_e = 90.0$ 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. The manual motor starter magnetic only offers a rated service short-circuit breaking capacity $I_{cs} = 25$ kA at 400 VAC. Further features are the build-in disconnect function, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter magnetic only 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.

Additional Information

Actuator Type:	Rotary Handle
Ambient Air Temperature:	Operation -20 ... +70 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation:	No
Ampere Rating UL/CSA:	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
Connecting Capacity Main Circuit:	Flexible with Ferrule 1x 2.5 ... 50 mm ² Flexible with Ferrule 2x 2.5 ... 35 mm ² Solid 1/2x 2.5 ... 16 mm ² Stranded 1x 10 ... 70 mm ² Stranded 2x 10 ... 50 mm ²
Contact Position Indication:	ON / OFF / TRIP
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 90 A
Country of Origin:	Germany (DE)
Customs Tariff Number:	85362090
DNV Certificate:	1SAA937000-0301
Data Sheet, Technical Information:	1SBC100173C0201
Declaration of Conformity - CE:	1SAD938504-0051
Degree of Protection:	Housing IP20 Main Circuit Terminals IP00
EAC Certificate:	1SAA937001-2703
EAN:	4013614265716
EPLAN Catalog Tree:	Electrical engineering / Protection devices / Motor overload switch
EPLAN Function Definition:	Motor overload switch / Motor overload switch, 6 connection points / Motor overload switch three-pole 1_2_3_4_5_6
ETIM 4:	EC000074 - Motor protective circuit-breaker
ETIM 5:	EC000074 - Motor protective circuit-breaker
ETIM 6:	EC000074 - Motor protection circuit-breaker
Electrical Durability:	25000 cycle
Environmental Classification:	10A 1010001 0101

Environmental Information:	1SAA918004-2401
GOST Certificate:	1SAA963001-2702
General Use Rating UL/CSA:	(600 V AC) 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
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SAM507001R1001
Invoice Description:	MO495-90 Manual Motor Starter Magnetic only
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Mechanical Durability:	50000 cycle
Minimum Order Quantity:	1 piece
Mounting Position:	Position 1 to 6
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
Number of Poles:	3
Number of Protected Poles:	3
Object Classification Code:	F
Package Level 1 EAN:	4013614265716
Package Level 1 Gross Weight:	2.254 kg
Package Level 1 Height:	171 mm
Package Level 1 Length:	190 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	76.5 mm
Phase Loss Sensitive:	No
Pollution Degree:	3
Power Loss:	at Rated Operating Conditions per Pole 10 W
Product Main Type:	MO495
Product Name:	Manual Motor Starter Magnetic Only
Product Net Depth:	174 mm
Product Net Height:	165 mm
Product Net Weight:	2.269 kg
Product Net Width:	70 mm
RMRS Certificate:	1SAA918000-0704
Rated Current (I_n):	90 A
Rated Frequency (f):	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 6 kV
Rated Instantaneous Short-Circuit Current Setting (I_i):	1170 A
Rated Insulation Voltage (U_i):	690 V
Rated Operational Current (I_e):	90 A
Rated Operational Current AC-3 (I_e):	90 A
Rated Operational Voltage:	Main Circuit 690 V AC Main Circuit 450 V DC
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 100 kA (400 V AC) 25 kA (440 V AC) 20 kA

	(440 V AC) 20 kA (500 V AC) 4 kA (690 V AC) 3 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 100 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 8 kA (690 V AC) 5 kA
Rated Uninterrupted Current (I_u):	90 A
Recommended Screw Driver:	Hexagon 4
Remarks:	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used
Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 25g
RoHS Date:	0016
RoHS Information:	1SAA918002-4401
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selectivity Category:	A
Selling Unit of Measure:	piece
Setting Range:	None
Short Description:	MO495-90 Manual Motor Starter
Short-Circuit Protective Devices:	gG Type Fuses 125 A, 690 V AC gG Type Fuses 160 A, 400 V AC
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 508 CSA 22.2 No. 14
Suitable for Isolation:	Yes
Tightening Torque:	Main Circuit 4 ... 6 N·m
Tightening Torque UL/CSA:	Main Circuit 35 ... 53 in·lb
Trip Class:	None
UL Certificate:	UL_E167205
UNSPSC:	39121521
Utilization:	Starter Protection
Wire Stripping Length:	Main Circuit 17 mm
cUL Certificate:	1SAA937000-1701
eClass:	7.0 27370401

