

PRODUCT-DETAILS

MO495-90

MO495-90 Manual Motor Starter Magnetic Only



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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362090

Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Instructions and Manuals	1SAM507001R1001

Dimensions

Product Net Width	70 mm
Product Net Height	165 mm
Product Net Depth / Length	174 mm
Product Net Weight	2.269 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs})	(230 V AC) 100 kA (400 V AC) 25 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 Instantaneous Short-Circuit Current Setting (I_i)	1170 A
Setting Range	None
Rated Operational Power AC-3 (P_e)	(400 V) Three Phase 45 kW
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 450 V DC
Rated Operational Current (I_e)	90 A
Rated Operational Current AC-3 (I_e)	90 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_i)	690 V
Power Loss	at Rated Operating Conditions per Pole 10 W
Number of Poles	3
Conventional Free-air Thermal Current (I_{th})	Main Circuit 90 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 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
Tightening Torque	Main Circuit 4 ... 6 N·m
Wire Stripping Length	Main Circuit 17 mm
Recommended Screw Driver	Hexagon 4
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
Actuator Type	Rotary Handle
Contact Position	ON / OFF / TRIP

Indication	
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 508
Remarks	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used

Technical 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
Tightening Torque UL/CSA	Main Circuit 35 ... 53 in·lb

Environmental

Ambient Air Temperature	Operation -20 ... +70 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	No
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

cUL Certificate	1SAA937000-1701
Declaration of Conformity - CE	1SAD938505-0051
Declaration of Conformity - UKCA	1SAD938500-1051
DNV Certificate	1SAA937000-0301
EAC Certificate	1SAA937001-2703
GOST Certificate	1SAA963001-2702
Instructions and Manuals	1SAM507001R1001
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938505-0051
UL Certificate	UL_E167205

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	76.5 mm

Package Level 1 Depth / Length	190 mm
Package Level 1 Height	171 mm
Package Level 1 Gross Weight	2.3 kg
Package Level 1 EAN	4013614265716

Classifications

Object Classification Code	F
ETIM 4	EC000074 - Motor protective circuit-breaker
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - Motor protection circuit-breaker
ETIM 7	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401
UNSPSC	39121521
IDEA Granular Category Code (IGCC)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers

Categories

Low Voltage Products and Systems → Circuit Breakers → Manual Motor Starters
Low Voltage Products and Systems → Control Products → Manual Motor Starters → Manual Motor Starters

