

MS497-50



For sale but "Obsolete", replaced by 1SAM451000R1016

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

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→ Manual Motor Starters

General Information

Extended Product Type:	MS497-50
Product ID:	1SAM580000R1006
EAN:	4013614265624
Catalog Description:	MS497-50 Manual Motor Starter
Long Description:	The MS497-50 manual motor starter is a 70 mm width devices with a rated operational current of $I_e = 50.0$ 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 $I_{cs} = 50$ kA at 400 V AC and the trip class 10. 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.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010
Replacement Product ID (NEW):	1SAM451000R1016

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Data Sheet, Technical Information (Part 2):	1SAM500503F0006
Data Sheet, Technical Information (Part 3):	9AKK105713A1104
Instructions and Manuals:	1SAM507001R1001
Instructions and Manuals (Part 2):	2CDC131017M5701

Dimensions

Product Net Width:	70 mm
Product Net Height:	165 mm
Product Net Depth:	174 mm

Product Net Weight: 2.23 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 100 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 7.5 kA (690 V AC) 5 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 100 kA (500 V AC) 15 kA (690 V AC) 10 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	650 A
Setting Range:	40 ... 50 A
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 22 kW
Rated Operational Voltage:	Main Circuit 690 V AC Main Circuit 450 V DC
Rated Operational Current (I_e):	45 A
Rated Operational Current AC-3 (I_e):	45 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 3.5 ... 6.7 W
Number of Poles:	3
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 45 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
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 25g
RoHS Status:	Following EU Directive 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Horsepower Rating UL/CSA:	(200 V AC) Three Phase 15 Hp (208 V AC) Three Phase 15 Hp (220 ... 240 V AC) Three Phase 20 Hp (440 ... 480 V AC) Three Phase 40 Hp (550 ... 600 V AC) Three Phase 50 Hp
Ampere Rating UL/CSA:	45 A
General Use Rating UL/CSA:	(600 V AC) 45 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

Certificates and Declarations (Document Number)

ATEX Certificate:	1SAA937000-3901
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BV Certificate:	1SAA937000-0202
CCC Certificate:	1SAA937001-3803
cUL Certificate:	cUL_E195536
Declaration of Conformity - CE:	1SAD938506-0050
DNV Certificate:	1SAA937000-0301
EAC Certificate:	1SAA937001-2703
Environmental Information:	1SAA918004-2401
GL Certificate:	1SAA937000-0404
GOST Certificate:	1SAA963001-2702
Instructions and Manuals:	1SAM507001R1001
LR Certificate:	1SAA937000-0504
RMRS Certificate:	1SAA918000-0704
RoHS Information:	1SAD938506-0050
UL Certificate:	UL_E167205 UL_E195536

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	76.5 mm
Package Level 1 Length:	190 mm
Package Level 1 Height:	171 mm
Package Level 1 Gross Weight:	2.244 kg
Package Level 1 EAN:	4013614265624

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:	7.0 27370401
UNSPSC:	39121521

