

MS497-100 1SAM580000R1010 4013614265662

PRODUCT-DETAILS

MS497-100

MS497-100 Manual Motor Starter



General Information	
Extended Product Type	
Product ID	
EAN	

Catalog Description MS497-100 Manual Motor Starter

The MS497-100 manual motor starter is a 70 mm width devices with a rated operational current of le = 100.0 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 Ics = 50 kA at 400 VAC 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.

Long Description

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362090

Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical Information (Part 3)	9AKK105713A1104

Instructions and Manuals	1SAM507001R1001
Instructions and Manuals (Part 2)	2CDC131017M5701
Time-Current Characteristic Curve	1SAM500503F0010

Dimensions	
Product Net Width	70 mm
Product Net Height	165 mm
Product Net Depth / Length	174 mm
Product Net Weight	2.275 kg

Technical		
Rated Service Short-	(230 V AC) 100 kA	
Circuit Breaking	(400 V AC) 50 kA	
Capacity (I _{cs})	(440 V AC) 50 kA	
	(500 V AC) 5 kA (690 V AC) 3 kA	
Rated Ultimate Short-	(230 V AC) 100 kA	
Circuit Breaking	(400 V AC) 100 KA	
Capacity (I _{cu})	(440 V AC) 70 kA	
	(500 V AC) 10 kA	
Date diseases as a second	(690 V AC) 10 kA	
Rated Instantaneous Short-Circuit Current	1235 A	
Setting (I _i)		
Setting Range	80 100 A	
Rated Operational Power	(400 V) Three Phase 55 kW	
AC-3 (P _e)		
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 450 V DC	
Rated Operational Current (I _e)	100 A	
Rated Operational Current AC-3 (I _e)	100 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 8.1 12.7 W	
Number of Poles	3	
Conventional Free-air	Main Circuit 100 A	
Thermal Current (Ith)		
Degree of Protection	Housing IP20 Main Circuit Terminals IP00	
Pollution Degree	3	
Electrical Durability	25000 cycle	
Mechanical Durability	50000 cycle	
Terminal Type	Screw Terminals	
Connecting Capacity	Flexible with Ferrule 1x 2.5 50 mm²	
Main Circuit	Flexible with Ferrule 2x 2.5 35 mm ²	
	Solid 1/2x 2.5 16 mm² Stranded 1x 10 70 mm²	
	Stranded 1x 10 70 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 Indication	ON / OFF / TRIP
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 508

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	99 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 40 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) 99 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

Operation -20 +70 °C
Operation Compensated -20 +60 °C Storage -50 +80 °C
Yes
2000 m
11 ms Pulse 25g
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Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
ATEX Certificate	1SAA937000-3901
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
GL Certificate	1SAA937000-0404
GOST Certificate	1SAA963001-2702
Instructions and Manuals	1SAM507001R1001
Instructions and	2CDC131017M5701

Manua	Is (Pa	art 2)

LR Certificate	1SAA937000-0504
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938506-0050
Time-Current Characteristic Curve	1SAM500503F0010
UL Certificate	UL_E167205 UL_E195536

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	2.277 kg
Package Level 1 EAN	4013614265662

Classifications	
Object Classification	F
Code	
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
IDEA Granular Category	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers
Code (IGCC)	
E-Number (Finland)	3707089

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Circuit\ Breakers \rightarrow Manual\ Motor\ Starters$ $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Manual\ Motor\ Starters \rightarrow Manual\ Motor\ Starters$

