PRODUCT-DETAILS

MS497-63

MS497-63 Manual Motor Starter

General Information

Extended Product Type	MS497-63
Product ID	1SAM580000R1007
EAN	4013614265631
Catalog Description	MS497-63 Manual Motor Starter
Long Description	The MS497-630 manual motor starter is a 70 mm width devices with a rated operational current of Ie = 63.0 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
Replacement Product ID (NEW)	1SAM451000R1017

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	1SAM500503F0007

Dimensions

Product Net Width	70 mm
Product Net Height	165 mm
Product Net Depth / Length	174 mm
Product Net Weight	2.255 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) 4 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 70 kA (500 V AC) 15 kA (690 V AC) 7.5 kA
Rated Instantaneous Short-Circuit Current Setting (I_i)	819 A
Setting Range	45 ... 63 A
Rated Operational Power AC-3 (P_e)	(400 V) Three Phase 30 kW
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 450 V DC
Rated Operational Current (I_e)	50 A
Rated Operational Current AC-3 (I_e)	50 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 3.4 W
Number of Poles	3
Conventional Free-air Thermal Current (I_{th})	Main Circuit 50 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 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
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	50 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 20 Hp (208 V AC) Three Phase 20 Hp (220 ... 240 V AC) Three Phase 25 Hp (440 ... 480 V AC) Three Phase 50 Hp (550 ... 600 V AC) Three Phase 60 Hp
General Use Rating UL/CSA	(600 V AC) 50 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 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

Certificates and Declarations (Document Number)

ATEX Certificate	1SAA937000-3901
BV Certificate	1SAA937000-0202
CQC Certificate	CQC2013010307604042
cUL Certificate	cUL_E195536
Declaration of Conformity - CCC	2020980307003525
Declaration of Conformity - CE	1SAD938506-0050
Declaration of Conformity - UKCA	1SAD938500-1050
DNV Certificate	1SAA937000-0301
EAC Certificate	1SAA937001-2703

GL Certificate	1SAA937000-0404
GOST Certificate	1SAA963001-2702
Instructions and Manuals	1SAM507001R1001
Instructions and Manuals (Part 2)	2CDC131017M5701
LR Certificate	1SAA937000-0504
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938506-0050
Time-Current Characteristic Curve	1SAM500503F0007
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	2.3 kg
Package Level 1 EAN	4013614265631

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
E-Number (Finland)	3707086

Categories

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

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