

PRODUCT-DETAILS

# MS497-100

## MS497-100 Manual Motor Starter



### Información General

Tipo de producto extendido	MS497-100
Código de producto	1SAM580000R1010
EAN	4013614265662
Descripción corta	MS497-100 Manual Motor Starter

#### Descripción larga

The MS497-100 manual motor starter is a 70 mm width devices with a rated operational current of  $I_e = 100.0$  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  $I_{cs} = 50$  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.

### Clasificación

Cantidad mínima de pedido	1 piece
Código arancelario	85362090

### Descargas Populares

Ficha técnica, información técnica	1SBC100173C0201
Data Sheet, Technical	9AKK105713A1104

## Information (Part 3)

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

## Dimensiones

Ancho del product	70 mm
Alto del producto	165 mm
Largo del product	174 mm
Peso del product	2.275 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) 5 kA (690 V AC) 3 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) 10 kA (690 V AC) 10 kA
Rated Instantaneous Short-Circuit Current Setting ( $I_i$ )	1235 A
Setting Range	80 ... 100 A
Rated Operational Power AC-3 ( $P_e$ )	(400 V) Three Phase 55 kW
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 Thermal Current ( $I_{th}$ )	Main Circuit 100 A
Grado de protección	Housing IP20 Main Circuit Terminals IP00
Pollution Degree	3
Electrical Durability	25000 cycle
Mechanical Durability	50000 cycle
Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 2.5 ... 50 mm <sup>2</sup> Flexible with Ferrule 2x 2.5 ... 35 mm <sup>2</sup> Solid 1/2x 2.5 ... 16 mm <sup>2</sup> Stranded 1x 10 ... 70 mm <sup>2</sup> Stranded 2x 10 ... 50 mm <sup>2</sup>
Tightening Torque	Main Circuit 4 ... 6 N·m
Wire Stripping Length	Main Circuit 17 mm

Recommended Screw Driver	Hexagon 4
Mounting Position	1 ... 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

## Ambiente

Temperatura ambiente	Funcionamiento -20 ... +70 °C Operation Compensated -20 ... +60 °C Almacenamiento -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

## Certificados y Declaraciones (Número de Documento)

ATEX Certificate	1SAA937000-3901
BV Certificate	1SAA937000-0202
CQC Certificate	CQC2013010307604042
cUL Certificate	cUL_E195536
Declaration of Conformity - CCC	2020980307003525
Declaración de conformidad - CE	1SAD938506-0050
Declaration of Conformity - UKCA	1SAD938500-1050
DNV Certificate	1SAA937000-0301
EAC Certificate	1SAA937001-2703
GL Certificate	1SAA937000-0404

Instrucciones y manuales	1SAM507001R1001
Instructions and Manuals (Part 2)	2CDC131017M5701
LR Certificate	1SAA937000-0504
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938506-0050
Time-Current Characteristic Curve	1SAM500503F0010
UL Certificate	UL_E167205 UL_E195536

## Información de Embalaje

Embalaje Nivel 1 Unidades	1 piece
Embalaje Nivel 1 Ancho	76.5 mm
Embalaje Nivel 1 Largo	190 mm
Embalaje Nivel 1 Alto	171 mm
Embalaje Nivel 1 Peso	2.277 kg
Embalaje Nivel 1 EAN	4013614265662

## Clasificaciones

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)	3707089

## Categorías

Productos y sistemas de baja tensión → Aparatos de control → Guardamotores → Guardamotores

Productos y sistemas de baja tensión → Interruptores automáticos → Guardamotores

