

MS325-12.5



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General Information

Extended Product Type:	MS325-12.5
Product ID:	1SAM150000R1011
EAN:	4013614194368
Catalog Description:	MS325-12.5 Manual Motor Starter
Long Description:	The MS325-12.5 manual motor starter is a 54 mm width devices with a rated operational current of $I_e = 12.5$ 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 $I_{cs} = 75$ kA at 400 VAC and the trip class 10A. 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. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and locking devices for protection against unauthorized changes are available as accessory.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010
Replacement Product ID (NEW):	1SAM350000R1012

Popular Downloads

Data Sheet, Technical Information:	2CDC131046D0201
Data Sheet, Technical Information (Part 2):	1SAM100513F0011
Instructions and Manuals:	2CDC131005M5703

Dimensions

Product Net Width:	54 mm
Product Net Height:	87.5 mm
Product Net Depth / Length:	75.5 mm
Product Net Weight:	0.34 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 100 kA (400 V AC) 75 kA (440 V AC) 45 kA (500 V AC) 27 kA (690 V AC) 4.5 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 100 kA (400 V AC) 75 kA (440 V AC) 45 kA (500 V AC) 27 kA (690 V AC) 4.5 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	180 A
Setting Range:	9 ... 12.5 A
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 5.5 kW
Rated Operational Voltage:	Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current (I_e):	12.5 A
Rated Operational Current AC-3 (I_e):	12.5 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 1.0 ... 1.8 W
Number of Poles:	3
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 12.5 A
Degree of Protection:	Housing IP20 Main Circuit Terminals IP20
Pollution Degree:	3
Electrical Durability:	50000 cycle
Mechanical Durability:	100000 cycle
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 0.75 ... 4 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm ² Flexible 1/2x 1 ... 6 mm ² Rigid 1/2x 1 ... 6 mm ²
Tightening Torque:	Main Circuit 1.4 N·m
Wire Stripping Length:	Auxiliary Circuit 8 mm Main Circuit 10 mm
Recommended Screw Driver:	M3.5 Pozidriv 2

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
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

Environmental

Ambient Air Temperature:	Around the Enclosure 0 ... +40 °C Operation -25 ... +50 °C Operation Compensated -25 ... +50 °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 15g
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 10 ... 150 Hz
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	12.5 A
Horsepower Rating UL/CSA:	(220 ... 240 V AC) Three Phase 3 Hp (440 ... 480 V AC) Three Phase 7.5 Hp (550 ... 600 V AC) Three Phase 10 Hp
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 14-8 AWG Stranded 1/2x 14-8 AWG
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in·lb Main Circuit 14 in·lb

Certificates and Declarations (Document Number)

ATEX Certificate:	1SAA918000-3903
BV Certificate:	1SAA918000-0205
CB Certificate:	1SAA918000-2003
CCC Certificate:	1SAA918000-3806

cUL Certificate:	cUL_E137861 cUL_E345003
Declaration of Conformity - CE:	1SAD938514-0003
DNV Certificate:	1SAA918000-0305
Environmental Information:	1SAA918000-2702
GL Certificate:	1SAA918000-0403
GOST Certificate:	1SAA918000-2703
Instructions and Manuals:	2CDC131005M5703
LR Certificate:	1SAA918000-0504
RINA Certificate:	1SAA918000-0803
RMRS Certificate:	1SAA918000-0704
RoHS Information:	1SAA918001-4401
UL Certificate:	UL_E137861 UL_E345003

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	92 mm
Package Level 1 Depth / Length:	58 mm
Package Level 1 Height:	78 mm
Package Level 1 Gross Weight:	0.37 kg
Package Level 1 EAN:	4013614194368
Package Level 2 Units:	24 piece
Package Level 2 Width:	280 mm
Package Level 2 Depth / Length:	395 mm
Package Level 2 Height:	210 mm
Package Level 2 Gross Weight:	0.61 kg
Package Level 2 EAN:	4013614494499

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

