

# MS325-2.5



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

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## General Information

<b>Extended Product Type:</b>	MS325-2.5
<b>Product ID:</b>	1SAM150000R1007
<b>EAN:</b>	4013614195037
<b>Catalog Description:</b>	MS325-2.5 Manual Motor Starter
<b>Long Description:</b>	The MS325-2.5 manual motor starter is a 54 mm width devices with a rated operational current of $I_e = 2.5$ 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 $I_{cs} = 100$ kA at 400 V AC 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

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010
<b>Replacement Product ID (NEW):</b>	1SAM350000R1007

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CDC131046D0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAM100513F0007
<b>Instructions and Manuals:</b>	2CDC131005M5703

## Dimensions

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

## Technical

<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 100 kA (500 V AC) 100 kA (690 V AC) 40 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 100 kA (500 V AC) 100 kA (690 V AC) 40 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	28.8 A
<b>Setting Range:</b>	1.6 ... 2.5 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400 V) Three Phase 0.75 kW
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC Main Circuit 440 V DC
<b>Rated Operational Current (<math>I_e</math>):</b>	2.5 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	2.5 A
<b>Rated Frequency (f):</b>	Main Circuit 50 Hz Main Circuit 60 Hz
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Main Circuit 6 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	690 V
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 0.9 ... 2.1 W
<b>Number of Poles:</b>	3
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Main Circuit 2.5 A
<b>Degree of Protection:</b>	Housing IP20 Main Circuit Terminals IP20
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	50000 cycle
<b>Mechanical Durability:</b>	100000 cycle
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup> Flexible 1/2x 1 ... 6 mm <sup>2</sup> Rigid 1/2x 1 ... 6 mm <sup>2</sup>
<b>Tightening Torque:</b>	Main Circuit 1.4 N·m
<b>Wire Stripping Length:</b>	Auxiliary Circuit 8 mm Main Circuit 10 mm
<b>Recommended Screw Driver:</b>	M3.5 Pozidriv 2

<b>Mounting Position:</b>	Position 1 to 6
<b>Mounting on DIN Rail:</b>	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
<b>Actuator Type:</b>	Rotary Handle
<b>Contact Position Indication:</b>	ON / OFF
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

## Environmental

<b>Ambient Air Temperature:</b>	Around the Enclosure 0 ... +40 °C Operation -25 ... +50 °C Operation Compensated -25 ... +50 °C Storage -50 ... +80 °C
<b>Ambient Air Temperature Compensation:</b>	Yes
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 15g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 10 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Ampere Rating UL/CSA:</b>	2.5 A
<b>Horsepower Rating UL/CSA:</b>	(220 ... 240 V AC) Three Phase 0.5 Hp (440 ... 480 V AC) Three Phase 1 Hp (550 ... 600 V AC) Three Phase 1.5 Hp
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Flexible 1/2x 14-8 AWG Stranded 1/2x 14-8 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Main Circuit 14 in·lb

## Certificates and Declarations (Document Number)

<b>ATEX Certificate:</b>	1SAA918000-3903
<b>BV Certificate:</b>	1SAA918000-0205
<b>CB Certificate:</b>	1SAA918000-2003
<b>CCC Certificate:</b>	1SAA918000-3806

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

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 1 Depth / Length:</b>	58 mm
<b>Package Level 1 Height:</b>	78 mm
<b>Package Level 1 Gross Weight:</b>	0.37 kg
<b>Package Level 1 EAN:</b>	4013614195037
<b>Package Level 2 Units:</b>	24 piece
<b>Package Level 2 Width:</b>	280 mm
<b>Package Level 2 Depth / Length:</b>	395 mm
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Gross Weight:</b>	0.61 kg
<b>Package Level 2 EAN:</b>	4013614494451

## Classifications

<b>Object Classification Code:</b>	F
<b>ETIM 4:</b>	EC000074 - Motor protective circuit-breaker
<b>ETIM 5:</b>	EC000074 - Motor protective circuit-breaker
<b>ETIM 6:</b>	EC000074 - Motor protection circuit-breaker
<b>ETIM 7:</b>	EC000074 - Motor protection circuit-breaker
<b>eClass:</b>	7.0 27370401
<b>UNSPSC:</b>	39121521

