

## General Information

<b>Extended Product Type:</b>	MS325-12.5
<b>Product ID:</b>	1SAM150000R1011
<b>EAN:</b>	4013614194368
<b>Catalog Description:</b>	MS325-12.5 Manual Motor Starter
<b>Long Description:</b>	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.

## Categories

Products » Low Voltage Products and Systems » Circuit Breakers » Manual Motor Starters  
 Products » Low Voltage Products and Systems » Control Products » Manual Motor Starters » Manual Motor Starters

## Ordering

<b>EAN:</b>	4013614194368
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010
<b>Replacement Product ID (NEW):</b>	<a href="#">1SAM350000R1012</a>

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92.0 mm
<b>Package Level 1 Length:</b>	58.0 mm
<b>Package Level 1 Height:</b>	78.0 mm
<b>Package Level 1 Gross Weight:</b>	0.370 kg

## Dimensions

<b>Product Net Width:</b>	54.0 mm
<b>Product Net Height:</b>	87.5 mm
<b>Product Net Depth:</b>	75.5 mm
<b>Product Net Weight:</b>	0.340 kg

## Technical

<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(230V AC) 100 kA (400V AC) 75 kA (440V AC) 45 kA (500V AC) 27 kA (690V AC) 4.5 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(230V AC) 100 kA (400V AC) 75 kA (440V AC) 45 kA (500V AC) 27 kA (690V AC) 4.5 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	180 A
<b>Setting Range:</b>	9.00 ... 12.5 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400V) 5.5 kW
<b>Rated Operational Voltage (<math>U_e</math>):</b>	Main Circuit 690 V AC Main Circuit 440 V DC
<b>Rated Operational Current (<math>I_e</math>):</b>	12.5 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	12.5 A
<b>Rated Frequency (<math>f_r</math>):</b>	Main Circuit 50 / 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>	Per Pole 1.0 ... 1.8 W
<b>Number of Poles:</b>	3
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Main Circuit 12.5 A
<b>Isolating Function:</b>	Yes

<b>Degree of Protection:</b>	IP20
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	50000 cycle
<b>Mechanical Durability ( ):</b>	100000 cycle
<b>Connecting Capacity-Main Circuit:</b>	Rigid 1/2x 1 ... 6 mm <sup>2</sup> 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>
<b>Tightening Torques:</b>	Main Circuit 1.4 N·m
<b>Wire Stripping Length:</b>	Main Circuit 10 mm
<b>Recommended Screw Driver:</b>	Pozidriv 2 / M3.5
<b>Mounting Position:</b>	Position 1 to 6
<b>Actuator Type:</b>	Rotary Handle
<b>Contact Position Indication:</b>	ON / OFF
<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>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>	Operation -25 ... +50 °C Operation Compensated -25 ... +50 °C Storage -50 ... +80 °C Around the Enclosure 0 ... +40 °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 150 m/s <sup>2</sup>
<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>Horse Power Rating UL/CSA:</b>	220 ... 240V AC Three Phase 3 Hp 440 ... 480V AC Three Phase 7.5 Hp 550 ... 600V AC Three Phase 10 Hp
<b>Ampere Rating UL/CSA:</b>	12.5 A
<b>Connecting Capacity-Main Circuit UL/CSA:</b>	Stranded 1/2x 14 ... 8 AWG Flexible 1/2x 14 ... 8 AWG
<b>Tightening Torques UL/CSA:</b>	Main Circuit 14 in·lb

## Certificates and Declarations (Document Number)

<b>ATEX Certificate:</b>	<a href="#">1SAA918000-3903;</a>
<b>BV Certificate:</b>	<a href="#">1SAA918000-0204;</a>
<b>CB Certificate:</b>	<a href="#">1SAA918000-2002;</a>
<b>CCC Certificate:</b>	<a href="#">1SAA918000-3805;</a>
<b>cUL Certificate:</b>	<a href="#">cUL_E137861;</a> <a href="#">cUL_E345003;</a>
<b>cULus Certificate:</b>	E137861 E345003
<b>Declaration of Conformity - CE:</b>	<a href="#">1SAD938510-0003;</a>
<b>DNV Certificate:</b>	<a href="#">1SAA918000-0305;</a>
<b>GL Certificate:</b>	<a href="#">1SAA918000-0403;</a>
<b>GOST Certificate:</b>	<a href="#">1SAA918000-2703;</a>
<b>LR Certificate:</b>	<a href="#">1SAA918000-0503;</a>
<b>PTB Certificate:</b>	<a href="#">1SAA918000-1401;</a>
<b>RINA Certificate:</b>	<a href="#">1SAA918000-0803;</a>
<b>RMRS Certificate:</b>	<a href="#">1SAA918000-0703;</a>
<b>UL Certificate:</b>	<a href="#">UL_E137861;</a> <a href="#">UL_E345003;</a>

## Classifications

<b>Object Classification Code:</b>	F
<b>UNSPSC:</b>	39121521

