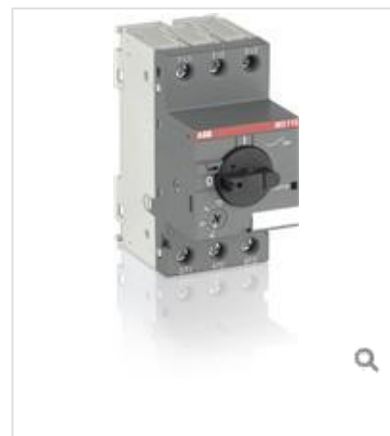


# MS116-2.5

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## General Information

<b>Extended Product Type:</b>	MS116-2.5
<b>Product ID:</b>	1SAM250000R1007
<b>EAN:</b>	4013614320309
<b>Catalog Description:</b>	MS116-2.5 Manual Motor Starter
<b>Long Description:</b>	The MS116-2.5 manual motor starter is a compact 45 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 $I_{cs} = 50$ 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

## Accessories [Show accessory images](#)

## Ordering

<b>EAN:</b>	4013614320309
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010

## 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>	95.0 mm
<b>Package Level 1 Height:</b>	50.0 mm
<b>Package Level 1 Gross Weight:</b>	0.280 kg
<b>Package Level 2 Units:</b>	40 piece
<b>Package Level 2 Width:</b>	280.0 mm
<b>Package Level 2 Length:</b>	395.0 mm
<b>Package Level 2 Height:</b>	210.0 mm
<b>Package Level 2 Gross Weight:</b>	11.586 kg
<b>Package Level 2 EAN:</b>	4013614408670

## Dimensions

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<b>Product Net Width:</b>	45.0 mm
<b>Product Net Height:</b>	90.0 mm
<b>Product Net Depth:</b>	85.6 mm
<b>Product Net Weight:</b>	0.265 kg

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## Technical

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<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(230V AC) 50.0 kA (400V AC) 50.0 kA (440V AC) 10.0 kA (500V AC) 10.0 kA (690V AC) 5.0 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(230V AC) 50.0 kA (400V AC) 50.0 kA (440V AC) 10.0 kA (500V AC) 10.0 kA (690V AC) 5.0 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	31.3 A
<b>Setting Range:</b>	1.60 ... 2.50 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400V) Three Phase 0.75 kW
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC
<b>Rated Operational Current (<math>I_e</math>):</b>	2.5 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	2.50 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>	Per Pole 0.7 ... 1.8 W
<b>Number of Poles:</b>	3
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Main Circuit 2.50 A
<b>Degree of Protection:</b>	IP20
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	100000 cycle
<b>Mechanical Durability:</b>	100000 cycle
<b>Connecting Capacity-Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Tightening Torque:</b>	Main Circuit 0.8 ... 1.2 N·m
<b>Wire Stripping Length:</b>	Main Circuit 9 mm
<b>Recommended Screw Driver:</b>	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

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<b>Ambient Air Temperature:</b>	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +55 °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 250 m/s <sup>2</sup>
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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## Technical UL/CSA

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<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Horse Power Rating UL/CSA:</b>	220 ... 240V AC Three Phase 0.50 Hp 440 ... 480V AC Three Phase 1.00 Hp 550 ... 600V AC Three Phase 1.50 Hp
<b>Ampere Rating UL/CSA:</b>	2.50 A
<b>General Use Rating UL/CSA:</b>	600V AC 2.50 A
<b>Connecting Capacity-Main Circuit UL/CSA:</b>	Flexible 1/2x 16 ... 12 AWG Stranded 1/2x 16 ... 12 AWG
<b>Tightening Torque UL/CSA:</b>	Main Circuit 10 in·lb

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## Certificates and Declarations (Document Number)

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<b>ABS Certificate:</b>	1SAA963000-0102
<b>BV Certificate:</b>	1SAA963000-0202
<b>CB Certificate:</b>	1SAA963000-2002
<b>CCC Certificate:</b>	1SAA963000-3803
<b>cUL Certificate:</b>	cUL_E137861
<b>Declaration of Conformity - CE:</b>	1SAD938515-0060
<b>DNV Certificate:</b>	1SAA963000-0302
<b>EAC Certificate:</b>	1SAA963000-2701
<b>GL Certificate:</b>	1SAA963000-0402
<b>GOST Certificate:</b>	1SAA937000-2703
<b>LR Certificate:</b>	1SAA963000-0504
<b>RMRS Certificate:</b>	1SAA918000-0703
<b>RoHS Information:</b>	1SAA963001-4407
<b>UL Certificate:</b>	UL_E137861

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## Classifications

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<b>Object Classification Code:</b>	F
<b>E-nummer:</b>	3111942
<b>UNSPSC:</b>	39121521

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