

# MO132-2.5



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

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## General Information

<b>Extended Product Type:</b>	MO132-2.5
<b>Product ID:</b>	1SAM360000R1007
<b>EAN:</b>	4013614400223
<b>Catalog Description:</b>	MO132-2.5 Manual Motor Starter Magnetic Only
<b>Long Description:</b>	<p>The MO132-2.5 manual motor starter magnetic only is a compact 45 mm width device with a rated operational current of <math>I_e = 2.50</math> A. This device is used to manually switch on and off loads/motors and to protect them reliably and without the need for a fuse from short-circuits. The manual motor starter offers a rated service short-circuit breaking capacity <math>I_{cs} = 50</math> kA at 400 V AC. A combination together with overload relays or motor controllers allows the protection of motors. Further features are the built-in disconnect function, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter magnetic only is suitable for three- and single-phase applications. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are available as accessory.</p>

## Ordering

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

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CDC131035D0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAM300515F0005
<b>Instructions and Manuals:</b>	2CDC131034M6801

## Dimensions

<b>Product Net Width:</b>	45 mm
<b>Product Net Height:</b>	90 mm
<b>Product Net Depth:</b>	86.75 mm
<b>Product Net Weight:</b>	0.265 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) 100 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) 100 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	31.3 A
<b>Setting Range:</b>	None
<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
<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 1.7 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 IP10
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	50000 cycle
<b>Mechanical Durability:</b>	100000 cycle
<b>Terminal Type:</b>	Screw Terminals
<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>	Pozidriv 2
<b>Mounting Position:</b>	Position 1 to 6

<b>Actuator Type:</b>	Rotary Handle
<b>Contact Position Indication:</b>	ON / OFF / TRIP
<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
<b>Remarks:</b>	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used

## Environmental

<b>Ambient Air Temperature:</b>	Around the Enclosure 0 ... +40 °C Operation -25 ... +60 °C Storage -50 ... +80 °C
<b>Ambient Air Temperature Compensation:</b>	No
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 25g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2011/65/EU

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<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>Ampere Rating UL/CSA:</b>	2.5 A
<b>General Use Rating UL/CSA:</b>	(600 V AC) 2.5 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

## Certificates and Declarations (Document Number)

<b>ABS Certificate:</b>	1SAA963001-0101
<b>BV Certificate:</b>	1SAA963001-0202
<b>CB Certificate:</b>	1SAA963002-2001
<b>CCC Certificate:</b>	1SAA963001-3805

<b>cUL Certificate:</b>	cUL_E137861 cUL_E345003
<b>cULus Certificate:</b>	cUL_E137861
<b>Declaration of Conformity - CE:</b>	1SAD938505-0183
<b>DNV GL Certificate:</b>	1SAA963001-0304
<b>EAC Certificate:</b>	1SAA963000-2701
<b>GOST Certificate:</b>	1SAA963001-2702
<b>Instructions and Manuals:</b>	2CDC131034M6801
<b>KC Certificate:</b>	1SAA963002-1501
<b>LR Certificate:</b>	1SAA963001-0502
<b>RINA Certificate:</b>	1SAA963000-0802
<b>RMRS Certificate:</b>	1SAA918000-0704
<b>RoHS Information:</b>	1SAD938505-0183
<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 Length:</b>	95 mm
<b>Package Level 1 Height:</b>	50 mm
<b>Package Level 1 Gross Weight:</b>	0.28 kg
<b>Package Level 1 EAN:</b>	4013614400223
<b>Package Level 2 Units:</b>	40 piece
<b>Package Level 2 Width:</b>	280 mm
<b>Package Level 2 Length:</b>	395 mm
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Gross Weight:</b>	11.586 kg
<b>Package Level 2 EAN:</b>	4013614443671

## Classifications

<b>Object Classification Code:</b>	F
<b>E-nummer:</b>	3110035
<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

