

# MO132-20



Products Low Voltage Products and Systems Circuit Breakers Manual Motor Starters

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## General Information

<b>Extended Product Type:</b>	MO132-20
<b>Product ID:</b>	1SAM360000R1013
<b>EAN:</b>	4013614400285
<b>Catalog Description:</b>	MO132-20 Manual Motor Starter Magnetic Only
<b>Long Description:</b>	The MO132-20 manual motor starter magnetic only is a compact 45 mm width devices with a rated operational current of $I_e = 20.0$ 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 $I_{cs} = 25$ kA at 400 VAC. A combination together with overload relays or motor controllers allows the protection of motors. Further features are the build-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.

## Additional Information

<b>ABS Certificate:</b>	1SAA963001-0101
<b>Actuator Type:</b>	Rotary Handle
<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>Ampere Rating UL/CSA:</b>	20 A
<b>BV Certificate:</b>	1SAA963001-0201
<b>CB Certificate:</b>	1SAA963002-2001
<b>CCC Certificate:</b>	1SAA963001-3805
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 AWG
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 2.5 ... 6 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 2.5 ... 6 mm <sup>2</sup>
<b>Contact Position Indication:</b>	ON / OFF / TRIP
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20 A
<b>Country of Origin:</b>	Germany (DE)
<b>Customs Tariff Number:</b>	85362010
<b>DNV Certificate:</b>	1SAA963001-0302
<b>Data Sheet, Technical Information:</b>	2CDC131035D0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAM300515F0008
<b>Declaration of Conformity - CE:</b>	1SAD938504-0183
<b>Degree of Protection:</b>	Housing IP20 Main Circuit Terminals IP10
<b>E-number:</b>	3110041
<b>EAC Certificate:</b>	1SAA963000-2701
<b>EAN:</b>	4013614400285

<b>EPLAN Catalog Tree:</b>	Electrical engineering / Protection devices / Motor overload switch
<b>EPLAN Function Definition:</b>	Motor overload switch / Motor overload switch, 6 connection points / Motor overload switch three-pole 1_2_3_4_5_6
<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>Electrical Durability:</b>	50000 cycle
<b>Frequency (f):</b>	0 ... 400 Hz
<b>GL Certificate:</b>	1SAA963001-0401
<b>GOST Certificate:</b>	1SAA963001-2702
<b>General Use Rating UL/CSA:</b>	(600 V AC) 20 A
<b>Horsepower Rating UL/CSA:</b>	(220 ... 240 V AC) Three Phase 5 Hp (440 ... 480 V AC) Three Phase 10 Hp (550 ... 600 V AC) Three Phase 15 Hp
<b>Instructions and Manuals:</b>	2CDC131034M6801
<b>Invoice Description:</b>	MO132-20 Manual Motor Starter Magnetic only, 20A
<b>LR Certificate:</b>	1SAA963001-0502
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Mechanical Durability:</b>	100000 cycle
<b>Minimum Order Quantity:</b>	1 piece
<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>Number of Poles:</b>	3
<b>Number of Protected Poles:</b>	3
<b>Object Classification Code:</b>	F
<b>Package Level 1 EAN:</b>	4013614400285
<b>Package Level 1 Gross Weight:</b>	0.325 kg
<b>Package Level 1 Height:</b>	50 mm
<b>Package Level 1 Length:</b>	102 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 2 EAN:</b>	4013614443732
<b>Package Level 2 Gross Weight:</b>	13.386 kg
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Length:</b>	395 mm
<b>Package Level 2 Units:</b>	40 piece
<b>Package Level 2 Width:</b>	280 mm
<b>Phase Loss Sensitive:</b>	No
<b>Pollution Degree:</b>	3
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2.1 W
<b>Product Main Type:</b>	MO132
<b>Product Name:</b>	Manual Motor Starter Magnetic Only
<b>Product Net Depth:</b>	86.55 mm
<b>Product Net Height:</b>	97.8 mm
<b>Product Net Weight:</b>	0.31 kg
<b>Product Net Width:</b>	45 mm
<b>RINA Certificate:</b>	1SAA963000-0802

<b>RMRS Certificate:</b>	1SAA918000-0703
<b>Rated Current (<math>I_n</math>):</b>	20 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 Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	250 A
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	690 V
<b>Rated Operational Current (<math>I_e</math>):</b>	20 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	20 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400 V) Three Phase 7.5 kW
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC
<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA
<b>Rated Uninterrupted Current (<math>I_u</math>):</b>	20 A
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Remarks:</b>	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used
<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 Date:</b>	0159
<b>RoHS Information:</b>	1SAA963002-4405
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selectivity Category:</b>	A
<b>Selling Unit of Measure:</b>	piece
<b>Setting Range:</b>	None
<b>Short Description:</b>	MO132-20 Manual Motor Starter
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 125 A, 440 V AC
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
<b>Suitable for Isolation:</b>	Yes
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	Main Circuit 2 N·m
<b>Tightening Torque UL/CSA:</b>	Main Circuit 18 in·lb
<b>Trip Class:</b>	None
<b>UL Certificate:</b>	UL_E137861 UL_E345003
<b>UNSPSC:</b>	39121521
<b>Utilization:</b>	Starter Protection
<b>Wire Stripping Length:</b>	Main Circuit 10 mm

**cUL Certificate:** cUL\_E137861  
cUL\_E345003

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**cULus Certificate:** cUL\_E137861

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**eClass:** 7.0 27370401

