



Automatización Eléctrica

Especialistas en Automatización

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General Information

| | |
|------------------------|---|
| Extended Product Type: | MO132-20 |
| Product ID: | 1SAM360000R1013 |
| EAN: | 4013614400285 |
| Catalog Description: | MO132-20 Manual Motor Starter Magnetic Only |
| Long Description: | 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. |

Categories

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| 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

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|-------------------------|---------------|
| EAN: | 4013614400285 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85362010 |

Dimensions

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| Product Net Width: | 45 mm |
| Product Net Height: | 97.8 mm |
| Product Net Depth: | 86.55 mm |
| Product Net Weight: | 0.31 kg |

Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 92 mm |
| Package Level 1 Height: | 50 mm |
| Package Level 1 Length: | 102 mm |
| Package Level 1 Gross Weight: | 0.325 kg |
| Package Level 2 Units: | 40 piece |
| Package Level 2 Width: | 280 mm |
| Package Level 2 Height: | 210 mm |
| Package Level 2 Length: | 395 mm |
| Package Level 2 Gross Weight: | 13.386 kg |
| Package Level 2 EAN: | 4013614443732 |

Environmental

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| Ambient Air Temperature: | Around the Enclosure 0 ... +40 °C Operation -25 ... +60 °C Storage -50 ... +80 °C |
| Ambient Air Temperature Compensation: | No |
| Maximum Operating Altitude Permissible: | 2000 m |
| Resistance to Shock acc. to IEC 60068-2-27: | 11 ms Pulse 25g |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5g / 3 ... 150 Hz |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Technical UL/CSA

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|-----------------------------------|---|
| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V AC |
| Ampere Rating UL/CSA: | 20 A |
| Horsepower Rating UL/CSA: | (220 ... 240 V AC) Three Phase 5 Hp (440 ... 480 V AC) Three Phase 10 Hp |

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| | (550 ... 600 V AC) Three Phase 15 Hp |
| General Use Rating UL/CSA: | (600 V AC) 20 A |
| Connecting Capacity Main Circuit UL/CSA: | Flexible 1/2x 16 ... 8 AWG Stranded 1/2x 16 ... 8 AWG |
| Tightening Torque UL/CSA: | Main Circuit 18 in·lb |

Additional Information

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| Actuator Type: | Rotary Handle |
| Connecting Capacity-Main Circuit: | Flexible with Ferrule 1/2x 0.75 ... 6 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm ² Flexible 1/2x 1 ... 2.5 mm ² Flexible 1/2x 2.5 ... 6 mm ² Rigid 1/2x 1 ... 2.5 mm ² Rigid 1/2x 2.5 ... 6 mm ² |
| Conventional Free-air Thermal Current (I_{th}): | Main Circuit 20 A |
| Degree of Protection: | IP20 |
| Electrical Durability: | 50000 cycle |
| Mechanical Durability: | 100000 cycle |
| Mounting on DIN Rail: | 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 |
| Mounting Position: | Position 1 to 6 |
| Number of Poles: | 3 |
| Number of Protected Poles: | 3 |
| Pollution Degree: | 3 |
| Power Loss: | at Rated Operating Conditions per Pole 2.1 W |
| Product Main Type: | MO132 |
| Product Name: | Manual Motor Starter Magnetic Only |
| Rated Current (I_n): | 20 A |
| Rated Frequency (f): | Main Circuit 50 Hz Main Circuit 60 Hz |
| Rated Impulse Withstand Voltage (U_{imp}): | Main Circuit 6 kV |
| Rated Instantaneous Short-Circuit Current Setting (I_i): | 250 A |
| Rated Insulation Voltage (U_i): | 690 V |
| Rated Operational Current (I_e): | 20 A |
| Rated Operational Current AC-3 (I_e): | 20 A |
| Rated Operational Power AC-3 (P_e): | (400 V) Three Phase 7.5 kW |
| Rated Operational Voltage: | Main Circuit 690 V AC |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}): | (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 |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}): | (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 |
| Rated Uninterrupted Current (I_u): | 20 A |
| Recommended Screw Driver: | Pozidriv 2 |
| Remarks: | For overload protection of the motors, an appropriate thermal or electronic overload relays must be used |
| RoHS Date: | 0159 |
| Setting Range: | None |
| Standards: | IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 |
| Terminal Type: | Screw Terminals |
| Tightening Torque: | Main Circuit 2 N·m |
| Wire Stripping Length: | Main Circuit 10 mm |

Certificates and Declarations (Document Number)

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| ABS Certificate: | 1SAA963001-0101 |
| BV Certificate: | 1SAA963001-0201 |

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| CB Certificate: | 1SAA963002-2001 |
| CCC Certificate: | 1SAA963001-3804 |
| cUL Certificate: | cUL_E137861 cUL_E345003 |
| Data Sheet, Technical Information: | 2CDC131035D0201 |
| Data Sheet, Technical Information (Part 2): | 1SAM300515F0008 |
| Declaration of Conformity - CE: | 1SAD938503-0183 |
| DNV Certificate: | 1SAA963001-0302 |
| EAC Certificate: | 1SAA963000-2701 |
| GL Certificate: | 1SAA963001-0401 |
| GOST Certificate: | 1SAA937000-2703 |
| LR Certificate: | 1SAA963001-0502 |
| RINA Certificate: | 1SAA963000-0802 |
| RMRS Certificate: | 1SAA918000-0703 |
| RoHS Information: | 1SAA963002-4405 |
| UL Certificate: | UL_E137861 UL_E345003 |

Classifications

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| eClass: | 7.0 27370401 |
| ETIM 4: | EC000074 - Motor protective circuit-breaker |
| ETIM 5: | EC000074 - Motor protective circuit-breaker |
| Object Classification Code: | F |
| UNSPSC: | 39121521 |





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