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 PRODUCT-DETAILS

## MO325-4

### MO325-4 Manual Motor Starter Magnetic Only 4 A

For sale but "Obsolete", replaced by




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#### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | MO325-4  |
| Product ID            | 1SAM160000R1008                                |
| EAN                   | 4013614302046                                  |
| Catalog Description   | MO325-4 Manual Motor Starter Magnetic Only 4 A |

|                  |  |
|------------------|--|
| Long Description | <p>The MO325-4 manual motor starter magnetic only is a 54 mm width device with a rated operational current of <math>I_e = 4.0</math> 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. The manual motor starter magnetic only offers a rated service short-circuit breaking capacity <math>I_{cs} = 100</math> kA at 400 VAC. 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. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are available as accessory.</p> |
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#### Ordering

|                              |                 |
|------------------------------|-----------------|
| Minimum Order Quantity       | 1 piece         |
| Customs Tariff Number        | 85362010        |
| Replacement Product ID (NEW) | 1SAM360000R1008 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC131047D0201 |
| Instructions and Manuals          | 2CDC131089M6801 |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 54 mm   |
| Product Net Height         | 87.5 mm |
| Product Net Depth / Length | 75.5 mm |
| Product Net Weight         | 0.34 kg |

## Technical

|   |   |
|---|---|
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (230 V AC) 100 kA<br>(400 V AC) 100 kA<br>(440 V AC) 100 kA<br>(500 V AC) 60 kA<br>(690 V AC) 10 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (230 V AC) 100 kA<br>(400 V AC) 100 kA<br>(440 V AC) 100 kA<br>(500 V AC) 60 kA<br>(690 V AC) 10 kA |
| Rated Instantaneous Short-Circuit Current Setting ( $I_i$ ) | 40 A  |
| Setting Range   | None  |
| Rated Operational Power AC-3 ( $P_e$ )                      | (400 V) Three Phase 1.5 kW  |
| Rated Operational Voltage                                   | Main Circuit 400 V AC<br>Main Circuit 690 V AC<br>Main Circuit 440 V DC                             |
| Rated Operational Current ( $I_e$ )                         | 4 A   |
| Rated Operational Current AC-3 ( $I_e$ )                    | 4 A   |
| Rated Frequency (f)   | Main Circuit 50 Hz<br>Main Circuit 60 Hz  |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | Main Circuit 6 kV   |
| Rated Insulation Voltage ( $U_i$ )                          | 690 V   |
| Power Loss  | at Rated Operating Conditions per Pole 2.3 W  |
| Number of Poles   | 3P  |
| Number of Auxiliary Contacts NC                             | 1   |
| Number of Auxiliary Contacts NO                             | 1   |
| Conventional Free-air Thermal Current ( $I_{th}$ )          | Main Circuit 4 A  |
| Degree of Protection  | Housing IP20<br>Main Circuit Terminals IP20   |
| Pollution Degree  | 3   |

|  |  |
|--|--|
| Electrical Durability                    | 50000 cycle  |
| Mechanical Durability                    | Nr. Operations 100000 cycle  |
| Terminal Type                            | Screw Terminals  |
| Connecting Capacity<br>Main Circuit      | Flexible with Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup><br>Flexible 1/2x 1 ... 6 mm <sup>2</sup><br>Rigid 1/2x 1 ... 6 mm <sup>2</sup>            |
| Connecting Capacity<br>Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 1 mm <sup>2</sup><br>Rigid 1/2x 1.0 ... 2.5 mm <sup>2</sup> |
| Tightening Torque                        | Auxiliary Circuit 0.8 ... 1.0 N·m<br>Main Circuit 1.4 N·m  |
| Wire Stripping Length                    | Auxiliary Circuit 8 mm<br>Main Circuit 10 mm   |
| Recommended Screw<br>Driver              | Pozidriv 2<br>M3.5   |
| Mounting Position                        | 1 ... 6  |
| Mounting on DIN Rail                     | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715   |
| Actuator Type                            | Rotary Handle  |
| Contact Position<br>Indication           | ON / OFF   |
| Standards                                | CSA 22.2 No. 14<br>IEC/EN 60947-1<br>IEC/EN 60947-2<br>IEC/EN 60947-4-1<br>UL 508  |
| Remarks                                  | For overload protection of the motors, an appropriate thermal or electronic overload relays must be used   |

## Technical UL/CSA

|   |   |
|---|---|
| Maximum Operating<br>Voltage UL/CSA             | Main Circuit 600 V AC   |
| Horsepower Rating<br>UL/CSA                     | (220 ... 240 V AC) Three Phase 1 Hp<br>(440 ... 480 V AC) Three Phase 2 Hp<br>(550 ... 600 V AC) Three Phase 3 Hp |
| Connecting Capacity<br>Main Circuit UL/CSA      | Flexible 1/2x 14-8 AWG<br>Stranded 1/2x 14-8 AWG  |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Flexible 1/2x 14-8 AWG<br>Stranded 1/2x 14-18 AWG   |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 7 in·lb<br>Main Circuit 14 in·lb  |
| Contact Rating UL/CSA                           | B300<br>Q300  |

## Environmental

|   |   |
|---|---|
| Ambient Air<br>Temperature                    | Around the Enclosure 0 ... +40 °C<br>Operation -25 ... +50 °C<br>Storage -50 ... +80 °C |
| Ambient Air<br>Temperature<br>Compensation    | No  |
| Maximum Operating<br>Altitude Permissible     | 2000 m  |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 11 ms Pulse 15g   |
| Resistance to Vibrations                      | 5g 10 ... 150 Hz  |

## Material Compliance

|   |  |
|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658  |
| REACH Declaration                           | 1SAA960005-4502  |
| RoHS Declaration                            | 1SAA963006-4502  |
| RoHS Information                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006539  |
| WEEE B2C / B2B                              | Business To Business   |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## Certificates and Declarations

|                                  |                     |
|----------------------------------|---------------------|
| CB Certificate                   | 1SAA918000-2003     |
| CCC Certificate                  | 2024010307659819    |
| CQC Certificate                  | CQC2017010307033534 |
| cUL Certificate                  | cUL_E137861         |
| cULus Certificate                | E137861             |
| Declaration of Conformity - CCC  | 2020980307003580    |
| Declaration of Conformity - CE   | 1SAD101100-3413     |
| Declaration of Conformity - UKCA | 1SAD201100-3413     |
| DNV Certificate                  | 1SAA918000-0306     |
| GL Certificate                   | 1SAA918000-0403     |
| LR Certificate                   | 1SAA918000-0504     |
| RINA Certificate                 | 1SAA918000-0804     |
| RMRS Certificate                 | 1SAA918000-0704     |
| UL Certificate                   | UL_E137861          |

## Container Information

|                                |                 |
|--------------------------------|-----------------|
| Package Level 1 Units          | box 1 piece     |
| Package Level 1 Width          | 92 mm           |
| Package Level 1 Depth / Length | 58 mm           |
| Package Level 1 Height         | 78 mm           |
| Package Level 1 Gross Weight   | 0.37 kg         |
| Package Level 1 EAN            | 4013614302046   |
| Package Level 2 Units          | carton 24 piece |
| Package Level 2 Width          | 280 mm          |
| Package Level 2 Depth / Length | 395 mm          |
| Package Level 2 Height         | 210 mm          |
| Package Level 2 Gross Weight   | 8.9 kg          |
| Package Level 2 EAN            | 4013614495007   |

## External Classifications and Standards

|                                    |   |
|------------------------------------|---|
| Object Classification Code         | F   |
| ETIM 9                             | EC000074 - Motor protection circuit-breaker |
| ETIM 10                            | EC000074 - Motor protection circuit-breaker |
| eClass                             | V11.0 : 27370401                            |
| UNSPSC                             | 39121521                                    |
| IDEA Granular Category Code (IGCC) | 4731 >> Manual Starters                     |

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## Categories

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

Low Voltage Products and Systems → Control Products → Manual Motor Starters → Manual Motor Starters

