

PRODUCT-DETAILS

# MS325-0.63

## MS325-0.63 Manual Motor Starter



### General Information

|                       |                                 |
|-----------------------|---------------------------------|
| Extended Product Type | MS325-0.63                      |
| Product ID            | 1SAM150000R1004                 |
| EAN                   | 4013614195006                   |
| Catalog Description   | MS325-0.63 Manual Motor Starter |

|                  |   |
|------------------|---|
| Long Description | <p>The MS325-0.63 manual motor starter is a 54 mm width devices with a rated operational current of <math>I_e = 0.63</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, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity <math>I_{cs} = 100</math> 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.</p> |
|------------------|---|

### Ordering

|                              |                 |
|------------------------------|-----------------|
| Minimum Order Quantity       | 1 piece         |
| Customs Tariff Number        | 85362010        |
| Replacement Product ID (NEW) | 1SAM350000R1004 |

### Popular Downloads

|                       |                 |
|-----------------------|-----------------|
| Data Sheet, Technical | 2CDC131046D0201 |
|-----------------------|-----------------|

## Information

|                                   |                 |
|-----------------------------------|-----------------|
| Instructions and Manuals          | 2CDC131089M6801 |
| Time-Current Characteristic Curve | 1SAM100513F0004 |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 54 mm   |
| Product Net Height         | 87.5 mm |
| Product Net Depth / Length | 75.5 mm |
| Product Net Weight         | 0.28 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) 100 kA<br>(690 V AC) 100 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) 100 kA<br>(690 V AC) 100 kA   |
| Rated Instantaneous Short-Circuit Current Setting ( $I_i$ ) | 6.1 A   |
| Setting Range   | 0.40 ... 0.63 A   |
| Rated Operational Power AC-3 ( $P_e$ )                      | (400 V) Three Phase 0.12 kW   |
| Rated Operational Voltage                                   | Main Circuit 690 V AC<br>Main Circuit 440 V DC  |
| Rated Operational Current ( $I_e$ )                         | 0.63 A  |
| Rated Operational Current AC-3 ( $I_e$ )                    | 0.63 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 0.8 ... 2.1 W  |
| Number of Poles   | 3   |
| Conventional Free-air Thermal Current ( $I_{th}$ )          | Main Circuit 0.63 A   |
| Degree of Protection  | Housing IP20<br>Main Circuit Terminals IP20   |
| Pollution Degree  | 3   |
| Electrical Durability                                       | 50000 cycle   |
| Mechanical Durability                                       | 100000 cycle  |
| Terminal Type   | Screw Terminals   |
| Connecting Capacity 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> |
| Tightening Torque   | Main Circuit 1.4 N·m  |
| Wire Stripping Length                                       | Auxiliary Circuit 8 mm<br>Main Circuit 10 mm  |
| Recommended Screw   | M3.5  |

|                             |  |
|-----------------------------|--|
| Driver                      | Pozidriv 2   |
| Mounting Position           | Position 1 to 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 Indication | ON / OFF   |
| Standards                   | IEC/EN 60947-1<br>IEC/EN 60947-2<br>IEC/EN 60947-4-1<br>UL 60947-1<br>UL 60947-4-1                             |

## Technical UL/CSA

|   |  |
|---|--|
| Maximum Operating Voltage UL/CSA        | Main Circuit 600 V AC                              |
| Ampere Rating UL/CSA                    | 0.63 A   |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 14-8 AWG<br>Stranded 1/2x 14-8 AWG   |
| Tightening Torque UL/CSA                | Auxiliary Circuit 7 in-lb<br>Main Circuit 14 in-lb |

## Environmental

|  |   |
|--|---|
| Ambient Air Temperature                        | Around the Enclosure 0 ... +40 °C<br>Operation -25 ... +50 °C<br>Operation Compensated -25 ... +50 °C<br>Storage -50 ... +80 °C |
| Ambient Air Temperature Compensation           | Yes   |
| Maximum Operating Altitude Permissible         | 2000 m  |
| Resistance to Shock acc. to IEC 60068-2-27     | 11 ms Pulse 15g   |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g / 10 ... 150 Hz  |
| RoHS Status                                    | Following EU Directive 2002/95/EC August 18, 2005 and amendment   |

## Certificates and Declarations (Document Number)

|                                |                            |
|--------------------------------|----------------------------|
| ATEX Certificate               | 1SAA918000-3903            |
| BV Certificate                 | 1SAA918000-0205            |
| CB Certificate                 | 1SAA918000-2003            |
| CCC Certificate                | 1SAA918000-3807            |
| cUL Certificate                | cUL_E137861<br>cUL_E345003 |
| Declaration of Conformity - CE | 1SAD938517-0003            |
| DNV Certificate                | 1SAA918000-0306            |
| Environmental Information      | 1SAA918000-2702            |
| GL Certificate                 | 1SAA918000-0403            |
| GOST Certificate               | 1SAA918000-2703            |
| Instructions and Manuals       | 2CDC131089M6801            |
| LR Certificate                 | 1SAA918000-0504            |
| RINA Certificate               | 1SAA918000-0803            |
| RMRS Certificate               | 1SAA918000-0704            |
| RoHS Information               | 1SAD938514-0003            |

|                                      |                          |
|--------------------------------------|--------------------------|
| Time-Current<br>Characteristic Curve | 1SAM100513F0004          |
| UL Certificate                       | UL_E137861<br>UL_E345003 |

## Container Information

|                                   |                 |
|-----------------------------------|-----------------|
| Package Level 1 Units             | box 1 piece     |
| Package Level 1 Width             | 92 mm           |
| Package Level 1 Depth /<br>Length | 58 mm           |
| Package Level 1 Height            | 78 mm           |
| Package Level 1 Gross<br>Weight   | 0.31 kg         |
| Package Level 1 EAN               | 4013614195006   |
| Package Level 2 Units             | carton 24 piece |
| Package Level 2 Width             | 280 mm          |
| Package Level 2 Depth /<br>Length | 395 mm          |
| Package Level 2 Height            | 210 mm          |
| Package Level 2 Gross<br>Weight   | 0.61 kg         |
| Package Level 2 EAN               | 4013614494420   |

## Classifications

|                                       |   |
|---------------------------------------|---|
| Object Classification<br>Code         | F   |
| ETIM 4                                | EC000074 - Motor protective circuit-breaker             |
| ETIM 5                                | EC000074 - Motor protective circuit-breaker             |
| ETIM 6                                | EC000074 - Motor protection circuit-breaker             |
| ETIM 7                                | EC000074 - Motor protection circuit-breaker             |
| eClass                                | 7.0 27370401  |
| UNSPSC                                | 39121521  |
| IDEA Granular Category<br>Code (IGCC) | 4845 >> 3 Pole Motor Circuit Protector Circuit Breakers |

## Categories

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

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

