



PRODUCT-DETAILS

MS325-1

MS325-1 Manual Motor Starter 0.63 ... 1.0 A



| General Information | |
|-----------------------|--|
| Extended Product Type | MS325-1 |
| Product ID | 1SAM150000R1005 |
| EAN | 4013614195013 |
| Catalog Description | MS325-1 Manual Motor Starter 0.63 ... 1.0 A |
| Long Description | The MS325-1 manual motor starter is a 54 mm width devices with a rated operational current of Ie = 1.0 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 Ics = 100 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. |

| Ordering | |
|------------------------|-----------------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85362010 |
| Replacement Product ID | 1SAM350000R1005 |

(NEW)

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC131046D0201 |
| Instructions and Manuals | 2CDC131089M6801 |
| Time-Current Characteristic Curve | 1SAM100513F0005 |

Dimensions

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| Product Net Width | 54 mm |
| Product Net Height | 87.5 mm |
| Product Net Depth / Length | 75.5 mm |
| Product Net Weight | 0.31 kg |

Technical

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| Rated Service Short-Circuit Breaking Capacity (I_{cs}) | (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 |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}) | (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 |
| Rated Instantaneous Short-Circuit Current Setting (I_i) | 11.5 A |
| Setting Range | 0.63 ... 1.0 A |
| Rated Operational Power AC-3 (P_e) | (400 V) Three Phase 0.25 kW |
| Rated Operational Voltage | Main Circuit 690 V AC Main Circuit 440 V DC |
| Rated Operational Current (I_e) | 1 A |
| Rated Operational Current AC-3 (I_e) | 1 A |
| Rated Frequency (f) | Main Circuit 50 Hz 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 1 A |
| Degree of Protection | Housing IP20 Main Circuit Terminals IP20 |
| Pollution Degree | 3 |
| Electrical Durability | 50000 cycle |

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|----------------------------------|---|
| Mechanical Durability | 100000 cycle |
| Terminal Type | Screw Terminals |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 0.75 ... 4 mm² Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm² Flexible 1/2x 1 ... 6 mm² Rigid 1/2x 1 ... 6 mm² |
| Tightening Torque | Main Circuit 1.4 N·m |
| Wire Stripping Length | Auxiliary Circuit 8 mm Main Circuit 10 mm |
| Recommended Screw Driver | M3.5 Pozidriv 2 |
| Mounting Position | 1 ... 6 |
| 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 |
| Actuator Type | Rotary Handle |
| Contact Position Indication | ON / OFF |
| Standards | IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 |

Technical UL/CSA

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| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC |
| Horsepower Rating UL/CSA | (440 ... 480 V AC) Three Phase 0.5 Hp (550 ... 600 V AC) Three Phase 0.5 Hp |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 14-8 AWG Stranded 1/2x 14-8 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in·lb Main Circuit 14 in·lb |

Environmental

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| Ambient Air Temperature | Around the Enclosure 0 ... +40 °C Operation -25 ... +50 °C Operation Compensated -25 ... +50 °C 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 | 5g 10 ... 150 Hz |

Material Compliance

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 1SAA960005-4502 |
| RoHS Information | 1SAA963006-4502 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances | 2CMT2023-006539 |

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| Control Act - TSCA | |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

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|-------------------------------------|----------------------------|
| ATEX Certificate | 1SAA918000-3903 |
| BV Certificate | 1SAA918000-0205 |
| CB Certificate | 1SAA918000-2003 |
| CQC Certificate | CQC2017010307033534 |
| cUL Certificate | cUL_E137861 cUL_E345003 |
| Declaration of Conformity - CCC | 2020980307003580 |
| Declaration of Conformity - CE | 1SAD101100-3412 |
| Declaration of Conformity - UKCA | 1SAD201100-3412 |
| DNV Certificate | 1SAA918000-0306 |
| GL Certificate | 1SAA918000-0403 |
| LR Certificate | 1SAA918000-0504 |
| RINA Certificate | 1SAA918000-0804 |
| RMRS Certificate | 1SAA918000-0704 |
| UL Certificate | UL_E137861 UL_E345003 |

Container Information

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|-----------------------------------|-----------------|
| 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 | 0.34 kg |
| Package Level 1 EAN | 4013614195013 |
| 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 | 7.46 kg |
| Package Level 2 EAN | 4013614494437 |

Classifications

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| Object Classification 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 |
| ETIM 8 | EC000074 - Motor protection circuit-breaker |
| eClass | V11.0 : 27370401 |

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|------------------------------------|-------------------------|
| UNSPSC | 39121521 |
| IDEA Granular Category Code (IGCC) | 4731 >> Manual Starters |
| E-Number (Finland) | 3707055 |

Categories

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

