

PRODUCT-DETAILS

MS325-9-HKF11

MS325-9-HKF11 Manual Motor Starter



General Information

| | |
|-----------------------|------------------------------------|
| Extended Product Type | MS325-9-HKF11 |
| Product ID | 1SAM150005R0010 |
| EAN | 4013614302480 |
| Catalog Description | MS325-9-HKF11 Manual Motor Starter |

| | |
|------------------|---|
| Long Description | <p>The MS325-9-HKF11 manual motor starter is a 54 mm width devices with a rated operational current of $I_e = 9.0 \text{ A}$ and a pre-assembled front mounted auxiliary contact HKF1-11. 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 $I_{cs} = 100 \text{ kA}$ 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) | 1SAM350005R1010 |

Popular Downloads

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

Information

| | |
|-----------------------------------|-----------------|
| Instructions and Manuals | 2CDC131089M6801 |
| Time-Current Characteristic Curve | 1SAM100513F0010 |

Dimensions

| | |
|----------------------------|---------|
| Product Net Width | 54 mm |
| Product Net Height | 87.5 mm |
| Product Net Depth / Length | 75.5 mm |
| Product Net Weight | 0.36 kg |

Technical

| | |
|---|--|
| Rated Service Short-Circuit Breaking Capacity (I_{cs}) | (230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 5 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}) | (230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 5 kA |
| Rated Instantaneous Short-Circuit Current Setting (I_i) | 135 A |
| Setting Range | 6.3 ... 9.0 A |
| Rated Operational Power AC-3 (P_e) | (400 V) Three Phase 4 kW |
| Rated Operational Voltage | Main Circuit 690 V AC Main Circuit 440 V DC |
| Rated Operational Current (I_e) | 9 A |
| Rated Operational Current AC-3 (I_e) | 9 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 0.9 ... 1.8 W |
| Number of Poles | 3 |
| Mounted Auxiliary Contacts | 1 NO, 1 NC |
| Number of Auxiliary Contacts NC | 1 |
| Number of Auxiliary Contacts NO | 1 |
| Conventional Free-air Thermal Current (I_{th}) | Main Circuit 9 A |
| Degree of Protection | Housing IP20 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 ² Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm ² |

| | |
|-----------------------------|--|
| | Flexible 1/2x 1 ... 6 mm ² Rigid 1/2x 1 ... 6 mm ² |
| 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 | Position 1 to 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 | CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 508 |

Technical UL/CSA

| | |
|---|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC |
| Ampere Rating UL/CSA | 9 A |
| Horsepower Rating UL/CSA | (220 ... 240 V AC) Three Phase 2.5 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 7.5 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

| | |
|--|---|
| 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 acc. to IEC 60068-2-6 | 5g / 10 ... 150 Hz |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

| | |
|--------------------------------|----------------------------|
| ATEX Certificate | 1SAA918000-3903 |
| BV Certificate | 1SAA918000-0204 |
| CB Certificate | 1SAA918000-2002 |
| CCC Certificate | 1SAA918000-3807 |
| cUL Certificate | cUL_E137861 cUL_E345003 |
| Declaration of Conformity - CE | 1SAD938517-0003 |
| DNV Certificate | 1SAA918000-0306 |
| GL Certificate | 1SAA918000-0403 |

| | |
|-----------------------------------|--------------------------|
| GOST Certificate | 1SAA918000-2703 |
| Instructions and Manuals | 2CDC131089M6801 |
| LR Certificate | 1SAA918000-0503 |
| RINA Certificate | 1SAA918000-0803 |
| RMRS Certificate | 1SAA918000-0704 |
| RoHS Information | 1SAD938511-0056 |
| Time-Current Characteristic Curve | 1SAM100513F0010 |
| UL Certificate | UL_E137861 UL_E345003 |

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 | 0.39 kg |
| Package Level 1 EAN | 4013614302480 |
| 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 | 9.38 kg |
| Package Level 2 EAN | 4013614494765 |

Classifications

| | |
|------------------------------------|---|
| 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 |
| eClass | 7.0 27370401 |
| UNSPSC | 39121521 |
| IDEA Granular Category 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

