

PRODUCT-DETAILS

MS132-0.25-HKF1-11

MS132-0.25-HKF1-11 Manual Motor Starter



General Information

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|-----------------------|---|
| Extended Product Type | MS132-0.25-HKF1-11 |
| Product ID | 1SAM350005R1002 |
| EAN | 4013614404429 |
| Catalog Description | MS132-0.25-HKF1-11 Manual Motor Starter |

Long Description

The MS132-0.25-HKF1-11 manual motor starter (also known as motor protection circuit breaker or manual motor protector) is a compact 45 mm width device with a rated operational current of $I_e = 0.25$ 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 $I_{cs} = 100$ kA at 400 VAC and trip class 10. 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. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are available as accessory.

Ordering

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|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85362010 |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC131021D0201 |
|-----------------------------------|-----------------|

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|-----------------------------------|------------------------------------|
| Instructions and Manuals | 2CDC131022M6802 |
| Instructions and Manuals (Part 2) | 2CDC131060M0202 |
| Time-Current Characteristic Curve | 1SAM300505F0102 |
| I ² t Characteristic | 1SAM300507F0001 1SAM300507F0003 |
| Cut-off Current Characteristic | 1SAM300508F0001 1SAM300508F0003 |
| Dimension Diagram | 1SAM300402F0001 |

Dimensions

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| Product Net Width | 45 mm |
| Product Net Height | 90 mm |
| Product Net Depth / Length | 86.75 mm |
| Product Net Weight | 0.231 kg |

Technical

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| Rated Service Short-Circuit Breaking Capacity (I _{cs}) | (230 V AC) 100 kA (250 V DC) 3 Poles in Series 10 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) | 3.1 A |
| Setting Range | 0.16 ... 0.25 A |
| Rated Operational Power AC-3 (P _e) | (400 V) Three Phase 0.06 kW |
| Rated Operational Voltage | Main Circuit 690 V AC Main Circuit 250 V DC |
| Rated Operational Current (I _e) | 0.25 A |
| Rated Operational Current AC-3 (I _e) | 0.25 A |
| Rated Operational Current DC-5 (I _e) | 0.25 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 0.7 ... 1.6 W |
| Number of Poles | 3 |
| Mounted Auxiliary Contacts | 1 NO, 1 NC |
| Conventional Free-air Thermal Current (I _{th}) | Main Circuit 0.25 A |
| Degree of Protection | Housing IP20 Main Circuit Terminals IP10 |
| Pollution Degree | 3 |

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| Electrical Durability | 50000 cycle |
| Mechanical Durability | 100000 cycle |
| Terminal Type | Screw Terminals |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 1 ... 1.5 mm ² |
| Tightening Torque | Main Circuit 0.8 ... 1.2 N·m |
| Wire Stripping Length | Auxiliary Circuit 8 mm Main Circuit 9 mm |
| Recommended Screw 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Minimum Mounting Distance | Electrical Conductive Board, Horizontal - Up to 400 V 0 mm Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm Electrical Conductive Board, Vertical 75 mm Other Device Same Type, Horizontal 0 mm Other Device Same Type, Vertical 150 mm |
| Actuator Type | Rotary Handle |
| Contact Position Indication | ON / OFF / TRIP |
| Standards | IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |
| Remarks | UL508 Self-Protected Combination Motor Controller (Type E) in combination with feeder block S1-M3-xx |

Technical UL/CSA

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| Short-Circuit Current Rating (SCCR) | Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC) | 65 kA |
| | Manual Self-Protected Combination Controllers (Type E), (600Y / 347 V AC) | 47 kA |
| | Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) | 65 kA |
| | Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) | 47 kA |
| | Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) | 65 kA |
| | Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) | 47 kA |
| | Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480 V AC) | 65 kA |
| Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600 V AC) | 47 kA | |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC Auxiliary Circuit 250 V AC/DC | |
| Ampere Rating UL/CSA | | 0.25 A |
| Full Load Amps Motor Use | (200 V AC) Three Phase 0.25 A (208 V AC) Three Phase 0.25 A (220 ... 240 V AC) Three Phase 0.25 A (440 ... 480 V AC) Three Phase 0.25 A (550 ... 600 V AC) Three Phase 0.25 A | |
| Locked Rotor Amps | (200 V AC) Three Phase 1.5 A (208 V AC) Three Phase 1.5 A (220 ... 240 V AC) Three Phase 1.5 A (440 ... 480 V AC) Three Phase 1.5 A (550 ... 600 V AC) Three Phase 1.5 A | |

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| General Use Rating UL/CSA | (600 V AC) 0.25 A |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG |
| Connecting Capacity Auxiliary Circuit UL/CSA | Flexible 1/2x 16-14 AWG Stranded 1/2x 16-14 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb Main Circuit 10 ... 12 in-lb |
| Contact Rating UL/CSA | B300 R300 |

Environmental

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| Ambient Air Temperature | Operation -25 ... +70 °C Operation Compensated -25 ... +60 °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 25g |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g / 3 ... 150 Hz |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

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|--------------------------------------|------------------------------------|
| ABS Certificate | 1SAA963001-0101 |
| ATEX Certificate | 1SAA963000-3901 |
| BV Certificate | 1SAA963001-0201 |
| CB Certificate | 1SAA963002-2002 |
| CCC Certificate | 1SAA963001-3805 |
| cUL Certificate | UL_E137861 UL_E345003 |
| cULus Certificate | cUL_E137861 |
| Cut-off Current Characteristic | 1SAM300508F0001 1SAM300508F0003 |
| Declaration of Conformity - CE | 1SAD938514-0125 |
| DNV Certificate | 1SAA963001-0303 |
| EAC Certificate | 1SAA963000-2701 |
| GL Certificate | 1SAA963001-0401 |
| GOST Certificate | 1SAA963001-2702 |
| I ² t Characteristic | 1SAM300507F0001 1SAM300507F0003 |
| Instructions and Manuals | 2CDC131022M6802 |
| Instructions and Manuals (Part 2) | 2CDC131060M0202 |
| KC Certificate | 1SAA963002-1501 |
| LR Certificate | 1SAA963001-0502 |
| RINA Certificate | 1SAA963002-0802 |
| RMRS Certificate | 1SAA918000-0704 |
| RoHS Information | 1SAD938511-0125 |
| Time-Current Characteristic Curve | 1SAM300505F0102 |
| 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 | 95 mm |
| Package Level 1 Height | 50 mm |
| Package Level 1 Gross Weight | 0.246 kg |
| Package Level 1 EAN | 4013614404429 |
| Package Level 2 Units | carton 40 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 | 10.226 kg |
| Package Level 2 EAN | 4013614409073 |

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 |
| eClass | 7.0 27370401 |
| UNSPSC | 39121521 |
| IDEA Granular Category Code (IGCC) | 4845 >> 3 Pole Motor Circuit Protector Circuit Breakers |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|--|----------|----------|-----------------|
| 1SAM201901R1001 | HKF1-11 Auxiliary Contact | HKF1-11 | 1 | piece |
| 1SAM201901R1201 | HKF1-11K Auxiliary Contact | HKF1-11K | 1 | piece |
| 1SAM201901R1002 | HKF1-20 Auxiliary Contact | HKF1-20 | 1 | piece |
| 1SAM201901R1202 | HKF1-20K Auxiliary Contact | HKF1-20K | 1 | piece |
| 1SAM201901R1004 | HKF1-01 Auxiliary Contact | HKF1-01 | 1 | piece |
| 1SAM201901R1003 | HKF1-10 Auxiliary Contact | HKF1-10 | 1 | piece |
| 1SAM201902R1002 | HK1-20 Auxiliary Contact | HK1-20 | 1 | piece |
| 1SAM201902R1202 | HK1-20K Auxiliary Contact | HK1-20K | 1 | piece |
| 1SAM201902R1001 | HK1-11 Auxiliary Contact | HK1-11 | 1 | piece |
| 1SAM201902R1201 | HK1-11K Auxiliary Contact | HK1-11K | 1 | piece |
| 1SAM201902R1003 | HK1-02 Auxiliary Contact | HK1-02 | 1 | piece |
| 1SAM201902R1203 | HK1-02K Auxiliary Contact | HK1-02K | 1 | piece |
| 1SAM201902R1004 | HK1-20L Auxiliary Contact | HK1-20L | 1 | piece |
| 1SAM201902R1204 | HK1-20LK Auxiliary Contact | HK1-20LK | 1 | piece |
| 1SAM201903R1002 | SK1-20 Signal Contact | SK1-20 | 1 | piece |
| 1SAM201903R1202 | SK1-20K Signal Contact | SK1-20K | 1 | piece |
| 1SAM201903R1001 | SK1-11 Signal Contact | SK1-11 | 1 | piece |
| 1SAM201903R1201 | SK1-11K Signal Contact | SK1-11K | 1 | piece |
| 1SAM201903R1003 | SK1-02 Signal Contact | SK1-02 | 1 | piece |
| 1SAM201903R1203 | SK1-02K Signal Contact | SK1-02K | 1 | piece |
| 1SAM301901R1002 | CK1-20 Short Circuit Signaling Contact | CK1-20 | 1 | piece |

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|-----------------|---|-------------|---|-------|
| 1SAM301901R1001 | CK1-11 Short Circuit Signaling Contact | CK1-11 | 1 | piece |
| 1SAM301901R1003 | CK1-02 Short Circuit Signaling Contact | CK1-02 | 1 | piece |
| 1SAM201910R1001 | AA1-24 Shunt Trip | AA1-24 | 1 | piece |
| 1SAM201910R1002 | AA1-110 Shunt Trip | AA1-110 | 1 | piece |
| 1SAM201910R1003 | AA1-230 Shunt Trip | AA1-230 | 1 | piece |
| 1SAM201910R1004 | AA1-400 Shunt Trip | AA1-400 | 1 | piece |
| 1SAM201904R1010 | UA1-20 Undervoltage Release | UA1-20 | 1 | piece |
| 1SAM201904R1001 | UA1-24 Undervoltage Release | UA1-24 | 1 | piece |
| 1SAM201904R1002 | UA1-48 Undervoltage Release | UA1-48 | 1 | piece |
| 1SAM201904R1003 | UA1-60 Undervoltage Release | UA1-60 | 1 | piece |
| 1SAM201904R1004 | UA1-110 Undervoltage Release | UA1-110 | 1 | piece |
| 1SAM201904R1008 | UA1-208 Undervoltage Release | UA1-208 | 1 | piece |
| 1SAM201904R1005 | UA1-230 Undervoltage Release | UA1-230 | 1 | piece |
| 1SAM201904R1006 | UA1-400 Undervoltage Release | UA1-400 | 1 | piece |
| 1SAM201904R1007 | UA1-415 Undervoltage Release | UA1-415 | 1 | piece |
| 1SAM201904R1009 | UA1-575 Undervoltage Release | UA1-575 | 1 | piece |
| 1SAM201906R1102 | PS1-2-0-65 Busbar | PS1-2-0-65 | 1 | piece |
| 1SAM201906R1112 | PS1-2-1-65 Busbar | PS1-2-1-65 | 1 | piece |
| 1SAM201906R1122 | PS1-2-2-65 Busbar | PS1-2-2-65 | 1 | piece |
| 1SAM201916R1103 | PS1-3-0-100 Busbar | PS1-3-0-100 | 1 | piece |
| 1SAM201906R1103 | PS1-3-0-65 Busbar | PS1-3-0-65 | 1 | piece |
| 1SAM201916R1113 | PS1-3-1-100 Busbar | PS1-3-1-100 | 1 | piece |
| 1SAM201906R1113 | PS1-3-1-65 Busbar | PS1-3-1-65 | 1 | piece |
| 1SAM201916R1123 | PS1-3-2-100 Busbar | PS1-3-2-100 | 1 | piece |
| 1SAM201906R1123 | PS1-3-2-65 Busbar | PS1-3-2-65 | 1 | piece |
| 1SAM201916R1104 | PS1-4-0-100 Busbar | PS1-4-0-100 | 1 | piece |
| 1SAM201906R1104 | PS1-4-0-65 Busbar | PS1-4-0-65 | 1 | piece |
| 1SAM201916R1114 | PS1-4-1-100 Busbar | PS1-4-1-100 | 1 | piece |
| 1SAM201906R1114 | PS1-4-1-65 Busbar | PS1-4-1-65 | 1 | piece |
| 1SAM201906R1124 | PS1-4-2-65 Busbar | PS1-4-2-65 | 1 | piece |
| 1SAM201916R1105 | PS1-5-0-100 Busbar | PS1-5-0-100 | 1 | piece |
| 1SAM201906R1105 | PS1-5-0-65 Busbar | PS1-5-0-65 | 1 | piece |
| 1SAM201916R1115 | PS1-5-1-100 Busbar | PS1-5-1-100 | 1 | piece |
| 1SAM201906R1115 | PS1-5-1-65 Busbar | PS1-5-1-65 | 1 | piece |
| 1SAM201906R1125 | PS1-5-2-65 Busbar | PS1-5-2-65 | 1 | piece |
| 1SAM201907R1101 | S1-M1-25 Power Infeed Block | S1-M1-25 | 1 | piece |
| 1SAM201907R1102 | S1-M2-25 Power Infeed Block | S1-M2-25 | 1 | piece |
| 1SAM201907R1103 | S1-M3-25 Power Infeed Block | S1-M3-25 | 1 | piece |
| 1SAM201913R1103 | S1-M3-35 Power Infeed Block | S1-M3-35 | 1 | piece |
| 1SAM201914R1002 | S1-PB1-25 Power Infeed Block | S1-PB1-25 | 1 | piece |
| 1SAM201908R1001 | BS1-3 Protection Cover | BS1-3 | 1 | piece |
| 1SAM201909R1001 | FS116 Screw Fixing Kit | FS116 | 1 | piece |
| 1SAM201914R1001 | PB1-1-32 Connecting Link | PB1-1-32 | 1 | piece |
| GJF1101903R0002 | SA2 - Terminals and Installation Material | SA2 | 1 | piece |
| 1SAM201911R1012 | IB132-F Enclosure | IB132-F | 1 | piece |
| 1SAM201911R1010 | IB132-G Enclosure | IB132-G | 1 | piece |
| 1SAM201911R1011 | IB132-Y Enclosure | IB132-Y | 1 | piece |
| 1SAM201912R1010 | DMS132-G Door Mounting Kit | DMS132-G | 1 | piece |
| 1SAM201912R1011 | DMS132-Y Door Mounting Kit | DMS132-Y | 1 | piece |
| 1SAM201909R1021 | MSAH1 Shaft Supporter | MSAH1 | 1 | piece |
| 1SAM201920R1000 | MSH-AR Shaft Alignment Ring | MSH-AR | 1 | piece |
| 1SAM201920R1011 | MSHD-LTB Handles | MSHD-LTB | 1 | piece |
| 1SAM201920R1012 | MSHD-LTY Handles | MSHD-LTY | 1 | piece |
| 1SAM101923R0002 | MSMN Driver | MSMN | 1 | piece |
| 1SAM101923R0012 | MSMNO Driver | MSMNO | 1 | piece |
| 1SAM101924R0013 | MSEX-30 Driver Shaft | MSEX-30 | 1 | piece |
| 1SAM101924R0003 | MSEX-32 Driver Shaft | MSEX-32 | 1 | piece |

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|-----------------|----------------|----------|---|-------|
| 1SCA101647R1001 | OXS6X85 SHAFT | OXS6X85 | 1 | piece |
| 1SCA108043R1001 | OXS6X105 SHAFT | OXS6X105 | 1 | piece |
| 1SCA101655R1001 | OXS6X130 SHAFT | OXS6X130 | 1 | piece |
| 1SCA101659R1001 | OXS6X180 SHAFT | OXS6X180 | 1 | piece |

Categories

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

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