




---

 PRODUCT-DETAILS

# MS132-1.0K

## MS132-1.0K Manual Motor Starter 0.63 ... 1.0 A




---

**General Information**

|                       |  |
|-----------------------|--|
| Extended Product Type | MS132-1.0K                                     |
| Product ID            | 1SAM350010R1005                                |
| EAN                   | 4013614400353                                  |
| Catalog Description   | MS132-1.0K Manual Motor Starter 0.63 ... 1.0 A |

|                  |  |
|------------------|--|
| Long Description | <p>The MS132-1.0K 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 <math>I_e = 1.00</math> A with Push-in spring terminals. 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 MS132-K manual motor starter offers a rated service short-circuit breaking capacity <math>I_{cs} = 100</math> 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 MS132-K 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 and terminal spacers are available as accessory.</p> |
|------------------|--|

---

**Ordering**

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

## Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 1SBC100212C0203                    |
| Instructions and Manuals          | 2CDC131120M6801                    |
| Instructions and Manuals (Part 2) | 2CDC131060M0202                    |
| Ex Operating Instructions         | 2CDC131063M6801                    |
| Time-Current Characteristic Curve | 1SAM300505F0105                    |
| I <sup>2</sup> t Characteristic   | 1SAM300507F0001<br>1SAM300507F0003 |
| Cut-off Current Characteristic    | 1SAM300508F0001<br>1SAM300508F0003 |
| CAD Dimensional Drawing           | 2CDC001079B0201                    |
| Installation Video                | 9AKK108466A6074<br>9AKK108466A6068 |
| Marketing Video                   | 9AKK107991A4712<br>2CDC131153V0201 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 45 mm    |
| Product Net Height         | 112 mm   |
| Product Net Depth / Length | 87 mm    |
| Product Net Weight         | 0.256 kg |

## Technical

|   |   |
|---|---|
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )    | (230 V AC) 100 kA<br>(250 V DC) 3 Poles in Series 10 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 <sub>cu</sub> )   | (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 <sub>i</sub> ) | 12.5 A  |
| Setting Range   | 0.63 ... 1.0 A  |
| Rated Operational Power AC-3 (P <sub>e</sub> )                      | (400 V) Three Phase 0.25 kW   |
| Rated Operational Power AC-3e (P <sub>e</sub> )                     | (400 V) Three Phase 0.25 kW   |
| Rated Operational Voltage   | Main Circuit 690 V AC<br>Main Circuit 250 V DC  |
| Rated Operational Current (I <sub>e</sub> )                         | 1 A   |
| Rated Operational Current AC-3 (I <sub>e</sub> )                    | 1 A   |
| Rated Operational Current AC-3e (I <sub>e</sub> )                   | 1 A   |
| Rated Operational Current DC-5 (I <sub>e</sub> )                    | 1 A   |
| Rated Frequency (f)   | Main Circuit 50 Hz<br>Main Circuit 60 Hz  |
| Operating Frequency (f <sub>sw</sub> )                              | 0 ... 400 Hz  |
| Rated Impulse Withstand   | Main Circuit 6 kV   |

|  |   |
|--|---|
| Voltage ( $U_{imp}$ )                              |   |
| Rated Insulation Voltage ( $U_i$ )                 | 690 V   |
| Power Loss   | at Rated Operating Conditions per Pole 0.6 ... 1.6 W  |
| Number of Poles                                    | 3P  |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | Main Circuit 1 A  |
| Degree of Protection                               | Housing IP20<br>Main Circuit Terminals IP20   |
| Pollution Degree                                   | 3   |
| Electrical Durability                              | 50000 cycle   |
| Mechanical Durability                              | 100000 cycle  |
| Terminal Type                                      | Push-in Spring Terminals  |
| Connecting Capacity Main Circuit                   | Flexible with Ferrule 1/2x 0.5 ... 4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.5 ... 4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.5 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 4 mm <sup>2</sup><br>Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Stranded 1/2x 1 ... 6 mm <sup>2</sup> |
| Wire Stripping Length                              | Main Circuit 12 mm  |
| Recommended Screw Driver                           | Pozidriv 2  |
| 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  |
| Minimum Mounting Distance                          | Electrical Conductive Board, Horizontal - Up to 400 V 0 mm<br>Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm<br>Electrical Conductive Board, Vertical 75 mm<br>Other Device Same Type, Horizontal 0 mm<br>Other Device Same Type, Vertical 150 mm   |
| Actuator Type                                      | Rotary Handle   |
| Contact Position Indication                        | ON / OFF / TRIP   |
| 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<br>IEC 60335-2-40 A2L  |
| Remarks  | UL508 Self-Protected Combination Motor Controller (Type E) in combination with terminal spacer TS1-M3-K   |

## Technical UL/CSA

|                                     |  |
|-------------------------------------|--|
| 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                                  |
| Maximum Operating Voltage UL/CSA    | 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 (480Y / 277 V AC) 65 kA |
|                                     | Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 47 kA |
| Horsepower Rating UL/CSA            | Main Circuit 600 V AC  |
| Full Load Amps Motor Use            | (550 ... 600 V AC) Three Phase 0.5 Hp  |
|                                     | (200 V AC) Three Phase 1 A   |
|                                     | (208 V AC) Three Phase 1 A   |
|                                     | (220 ... 240 V AC) Three Phase 1 A   |
|                                     | (440 ... 480 V AC) Three Phase 1 A   |
| Locked Rotor Amps                   | (550 ... 600 V AC) Three Phase 1 A   |
|                                     | (200 V AC) Three Phase 6 A   |
|                                     | (208 V AC) Three Phase 6 A   |
|                                     | (220 ... 240 V AC) Three Phase 6 A   |
|                                     | (440 ... 480 V AC) Three Phase 6 A   |

|  |  |
|--|--|
|  | (550 ... 600 V AC) Three Phase 6 A           |
| General Use Rating<br>UL/CSA               | (600 V AC) 1 A                               |
| Connecting Capacity Main<br>Circuit UL/CSA | Stranded 1/2x 18-10 AWG<br>Stranded 1x 8 AWG |

## Environmental

|   |   |
|---|---|
| Ambient Air Temperature                       | Around the Enclosure 0 ... +40 °C<br>Operation -25 ... +70 °C<br>Operation Compensated -25 ... +60 °C<br>Storage -50 ... +80 °C |
| Ambient Air Temperature<br>Compensation       | Yes   |
| Maximum Operating<br>Altitude Permissible     | 2000 m  |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 11 ms Pulse 25g   |
| Resistance to Vibrations                      | 5g 3 ... 150 Hz   |

## Material Compliance

|   |  |
|---|--|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658  |
| REACH Declaration                                 | 1SAA963005-4502  |
| RoHS Information                                  | 1SAA963006-4502  |
| RoHS Status                                       | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control<br>Act - TSCA            | 2CMT2023-006539  |
| WEEE B2C / B2B                                    | Business To Business   |
| WEEE Category                                     | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## ABB EcoSolutions

|  |                                    |
|--|------------------------------------|
| End Of Life Disassembling<br>Instructions  | 1SAC200333H0001                    |
| Environmental Product<br>Declaration - EPD | 1SAC200360H0001<br>1SAC200385H0001 |

## Certificates and Declarations

|                                     |                                    |
|-------------------------------------|------------------------------------|
| A2L Certificate - IEC               | 1SAA963000-4601                    |
| ABS Certificate                     | 1SAA963001-0101                    |
| ATEX Certificate                    | 1SAA963000-3902                    |
| CB Certificate                      | 1SAA963002-2002                    |
| CCC Certificate                     | 2024010307658958                   |
| CQC Certificate                     | CQC2017010307034621                |
| Cut-off Current<br>Characteristic   | 1SAM300508F0001<br>1SAM300508F0003 |
| Declaration of Conformity<br>- CCC  | 2020980307004600                   |
| Declaration of Conformity<br>- CE   | 1SAD101100-3402                    |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3402                    |
| DNV GL Certificate                  | 1SAA963001-0304                    |
| EAC Certificate                     | 1SAA963004-2701                    |
| I <sub>pt</sub> Characteristic      | 1SAM300507F0001<br>1SAM300507F0003 |
| IECEX Certificate                   | 1SAA963000-4001                    |

|                  |                                      |
|------------------|--------------------------------------|
| KC Certificate   | 1SAA963002-1502                      |
| RINA Certificate | 1SAA963002-0802                      |
| UL Certificate   | E137861-20090225<br>E345003-20090225 |

## Container Information

|                                |                 |
|--------------------------------|-----------------|
| Package Level 1 Units          | box 1 piece     |
| Package Level 1 Width          | 50 mm           |
| Package Level 1 Depth / Length | 117 mm          |
| Package Level 1 Height         | 82 mm           |
| Package Level 1 Gross Weight   | 0.282 kg        |
| Package Level 1 EAN            | 4013614400353   |
| Package Level 2 Units          | carton 28 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   | 14.026 kg       |
| Package Level 2 EAN            | 4013614522673   |

## External Classifications and Standards

|                                    |   |
|------------------------------------|---|
| Object Classification Code         | F   |
| 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                            |
| UNSPSC                             | 39121521                                    |
| IDEA Granular Category Code (IGCC) | 4731 >> Manual Starters                     |
| E-Number (Finland)                 | 3707835                                     |
| E-Number (Sweden)                  | 3110454                                     |

## Accessories

| Identifier      | Description  | Type     | Quantity | Unit Of Measure |
|-----------------|--|----------|----------|-----------------|
| 1SAM201901R1001 | HKF1-11 Aux.-contact for front mounting                        | HKF1-11  | 1        | piece           |
| 1SAM201901R1201 | HKF1-11K Aux.-contact for frontmounting with Push-In terminals | HKF1-11K | 1        | piece           |
| 1SAM201901R1002 | HKF1-20 Aux.-contact 2NO, front mounting                       | HKF1-20  | 1        | piece           |
| 1SAM201901R1202 | HKF1-20K Aux.-contact for frontmounting with Push-In terminals | HKF1-20K | 1        | piece           |
| 1SAM201901R1004 | HKF1-01 Aux.-contact for front mounting                        | HKF1-01  | 1        | piece           |
| 1SAM201901R1003 | HKF1-10 Aux.-contact for front mounting                        | HKF1-10  | 1        | piece           |
| 1SAM201902R1002 | HK1-20 Aux.-contact 2 NO                                       | HK1-20   | 1        | piece           |
| 1SAM201902R1202 | HK1-20K Aux.-contact 2 NO with Push-In terminals               | HK1-20K  | 1        | piece           |
| 1SAM201902R1001 | HK1-11 Aux.-contact 1 NO + 1 NC                                | HK1-11   | 1        | piece           |
| 1SAM201902R1201 | HK1-11K Aux.-contact 1 NO + 1 NC with Push-In terminals        | HK1-11K  | 1        | piece           |
| 1SAM201902R1003 | HK1-02 Aux.-contact 2 NC                                       | HK1-02   | 1        | piece           |
| 1SAM201902R1203 | HK1-02K Aux.-contact 2 NC with Push-In terminals               | HK1-02K  | 1        | piece           |
| 1SAM201902R1004 | HK1-20L Aux.-cont. w. 2 lead contacts 2 NO                     | HK1-20L  | 1        | piece           |

|                 |   |             |   |       |
|-----------------|---|-------------|---|-------|
| 1SAM201902R1204 | HK1-20LK Aux-cont. w. 2 leading contacts 2 NO, with Push-In terminals | HK1-20LK    | 1 | piece |
| 1SAM201903R1002 | SK1-20 Signaling Contact 2 NO   | SK1-20      | 1 | piece |
| 1SAM201903R1202 | SK1-20K Signaling Contact 2 NO with Push-In terminals                 | SK1-20K     | 1 | piece |
| 1SAM201903R1005 | SK1-20AR Signaling Contact, 2NO with screw terminals                  | SK1-20AR    | 1 | piece |
| 1SAM201903R1205 | SK1-20ARK Signaling Contact, 2NO with Push-in Spring terminals        | SK1-20ARK   | 1 | piece |
| 1SAM201903R1001 | SK1-11 Signaling Contact 1 NO + 1 NC                                  | SK1-11      | 1 | piece |
| 1SAM201903R1201 | SK1-11K Signaling Contact 1 NO + 1 NC with Push-In terminals          | SK1-11K     | 1 | piece |
| 1SAM201903R1004 | SK1-11AR Signaling Contact, 1NO+1NC with screw terminals              | SK1-11AR    | 1 | piece |
| 1SAM201903R1204 | SK1-11ARK Signaling Contact, 1NO+1NC with Push-in Spring terminals    | SK1-11ARK   | 1 | piece |
| 1SAM201903R1003 | SK1-02 Signaling Contact 2 NC   | SK1-02      | 1 | piece |
| 1SAM201903R1203 | SK1-02K Signaling Contact 2 NC with Push-In terminals                 | SK1-02K     | 1 | piece |
| 1SAM201903R1006 | SK1-02AR Signaling Contact, 2NC with screw terminals                  | SK1-02AR    | 1 | piece |
| 1SAM201903R1206 | SK1-02ARK Signaling Contact, 2NC with Push-in Spring terminals        | SK1-02ARK   | 1 | piece |
| 1SAM301901R1002 | CK1-20 Short-Circuit Signaling Contact 2 NO                           | CK1-20      | 1 | piece |
| 1SAM301901R1001 | CK1-11 Short-Circuit Signaling Contact 1 NO + 1 NC                    | CK1-11      | 1 | piece |
| 1SAM301901R1003 | CK1-02 Short-Circuit Signaling Contact 2 NC                           | CK1-02      | 1 | piece |
| 1SAM201910R1001 | AA1-24 Shunt Trip 20-24V  | AA1-24      | 1 | piece |
| 1SAM201910R1002 | AA1-110 Shunt Trip 110V   | AA1-110     | 1 | piece |
| 1SAM201910R1003 | AA1-230 Shunt Trip 200-240V   | AA1-230     | 1 | piece |
| 1SAM201910R1004 | AA1-400 Shunt Trip 350-415V   | AA1-400     | 1 | piece |
| 1SAM201904R1010 | UA1-20 Undervoltage release 20V 50Hz / 24V 60 Hz                      | UA1-20      | 1 | piece |
| 1SAM201904R1001 | UA1-24 Undervoltage release 24 V                                      | UA1-24      | 1 | piece |
| 1SAM201904R1002 | UA1-48 Undervoltage release 48V                                       | UA1-48      | 1 | piece |
| 1SAM201904R1003 | UA1-60 Undervoltage release 60V                                       | UA1-60      | 1 | piece |
| 1SAM201904R1004 | UA1-110 Undervoltage release 110V 110V 50Hz/120V 60Hz                 | UA1-110     | 1 | piece |
| 1SAM201904R1008 | UA1-208 Undervoltage release 208V 60Hz                                | UA1-208     | 1 | piece |
| 1SAM201904R1005 | UA1-230 Undervoltage release 230 V 50 Hz / 240 V 60 Hz                | UA1-230     | 1 | piece |
| 1SAM201904R1006 | UA1-400 Undervoltage release 400V                                     | UA1-400     | 1 | piece |
| 1SAM201904R1007 | UA1-415 Undervoltage release 415V 415V 50Hz/480V 60Hz                 | UA1-415     | 1 | piece |
| 1SAM201904R1009 | UA1-575 Undervoltage release 575V 60Hz                                | UA1-575     | 1 | piece |
| 1SAM301903R1002 | PS1-2-0-65K 3-phase busbar 2x MS132-K, 65A                            | PS1-2-0-65K | 1 | piece |
| 1SAM301903R1003 | PS1-3-0-65K 3-phase busbar 3x MS132-K, 65A                            | PS1-3-0-65K | 1 | piece |
| 1SAM301903R1004 | PS1-4-0-65K 3-phase busbar 4x MS132-K, 65A                            | PS1-4-0-65K | 1 | piece |
| 1SAM301903R1005 | PS1-5-0-65K 3-phase busbar 5x MS132-K, 65A                            | PS1-5-0-65K | 1 | piece |
| 1SAM301903R1012 | PS1-2-1-65K 3-phase busbar 2x MS132-K + 1 lateral aux.contact, 65A    | PS1-2-1-65K | 1 | piece |
| 1SAM301903R1013 | PS1-3-1-65K 3-phase busbar 3x MS132-K + 1 lateral aux.contact, 65A    | PS1-3-1-65K | 1 | piece |
| 1SAM301903R1014 | PS1-4-1-65K 3-phase busbar 4x MS132-K + 1 lateral aux.contact, 65A    | PS1-4-1-65K | 1 | piece |
| 1SAM301903R1015 | PS1-5-1-65K 3-phase busbar 5x MS132-K + 1 lateral aux.contact, 65A    | PS1-5-1-65K | 1 | piece |
| 1SAM201909R1001 | FS116 Screw fixing kit for MS116, MS/MO132 10 pieces packed           | FS116       | 1 | piece |
| 1SAM301913R1001 | TS1-M3-K Terminal Spacer MS132-K For MS132-0.16K - MS132-32K Type E   | TS1-M3-K    | 1 | piece |
| GJF1101903R0002 | Terminals and Installation Material                                   | SA2         | 1 | piece |
| 1SAM201911R1012 | IB132-F Enclosure, GY/RD, IP65 3 times lockable                       | IB132-F     | 1 | piece |

|                 |  |          |   |       |
|-----------------|--|----------|---|-------|
| 1SAM201911R1010 | IB132-G Enclosure, GY/BK, IP65 Standard version, 3 times lockable          | IB132-G  | 1 | piece |
| 1SAM201911R1011 | IB132-Y Enclosure, RD/YE, IP65 Emergency-STOP, 3 times lockable            | IB132-Y  | 1 | piece |
| 1SAM201912R1010 | DMS132-G Door Mounting Kit, GY/BK, IP65 Standard version, 3 times lockable | DMS132-G | 1 | piece |
| 1SAM201912R1011 | DMS132-Y Door Mounting Kit, RD/YE, IP65 Emergency-STOP, 3 times lockable   | DMS132-Y | 1 | piece |
| 1SAM201909R1021 | MSAH1 Shaft Supporter suitable for MS116, MS132/MO132                      | MSAH1    | 1 | piece |
| 1SAM201920R1011 | MSHD-LTB Handle, IP64, black, 3 times lockable, defeatable, 0-TRIP-I       | MSHD-LTB | 1 | piece |
| 1SAM201920R1012 | MSHD-LTY Handle, IP64, red/yellow, 3 times lockable, defeatable, 0-TRIP-I  | MSHD-LTY | 1 | piece |
| 1SAM201920R1000 | MSH-AR Shaft alignment ring suitable for MSHD and MSH handles              | MSH-AR   | 1 | piece |
| 1SAM101923R0002 | MSMN Driver w. screw for manual motor starters, 6x6                        | MSMN     | 1 | piece |
| 1SAM101923R0012 | MSMNO Driver w/o coding w. screw for manual motor starters, 6x6            | MSMNO    | 1 | piece |
| 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

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

