

PRODUCT-DETAILS

# MS132-0.25-HKF1-11

## MS132-0.25-HKF1-11 Manual Motor Starter

0.16 ... 0.25 A



### Informations générales

|                              |   |
|------------------------------|---|
| Extension du type de produit | MS132-0.25-HKF1-11                                      |
| Code de produit              | 1SAM350005R1002   |
| EAN                          | 4013614404429   |
| Description courte           | MS132-0.25-HKF1-11 Manual Motor Starter 0.16 ... 0.25 A |

|                    |  |
|--------------------|--|
| Description longue | <p>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 <math>I_e = 0.25</math> 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 <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 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 and terminal spacers are available as accessory.</p> |
|--------------------|--|

### Commande

|                  |          |
|------------------|----------|
| Quantité minimum | 1 pièce  |
| Code douanier    | 85362010 |

### Downloads Préférés

|                             |                 |
|-----------------------------|-----------------|
| Fiche produit, informations | 2CDC131021D0202 |
|-----------------------------|-----------------|

## techniques

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Instructions et manuels               | 2CDC131022M6802                    |
| Instructions et manuels<br>(Partie 2) | 2CDC131060M0202                    |
| Time-Current<br>Characteristic Curve  | 1SAM300505F0102                    |
| I <sub>t</sub> Characteristic         | 1SAM300507F0001<br>1SAM300507F0003 |
| Cut-off Current<br>Characteristic     | 1SAM300508F0001<br>1SAM300508F0003 |
| CAD Dimensional<br>Drawing            | 2CDC001079B0201                    |
| Schéma dimensionnel                   | 1SAM300402F0001                    |

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**Dimensions**

|                      |          |
|----------------------|----------|
| Produit Largeur Net  | 45 mm    |
| Produit Hauteur Net  | 90 mm    |
| Produit Longueur Net | 86.75 mm |
| Poids net            | 0.231 kg |

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**Technique**

|   |   |
|---|---|
| Pouvoir assigné de<br>coupure de service en<br>court-circuit ( $I_{cs}$ ) | (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 |
| Pouvoir assigné de<br>coupure ultime en court-<br>circuit ( $I_{cu}$ )    | (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                                       |
| Courant assigné<br>instantané de réglage de<br>court-circuit ( $I_i$ )    | 3.1 A   |
| Setting Range   | 0.16 ... 0.25 A   |
| Puissance assignée<br>d'emploi AC-3 ( $P_e$ )                             | (400 V) Three Phase 0.06 kW   |
| Puissance assignée<br>d'emploi AC-3e ( $P_e$ )                            | (400 V) Three Phase 0.06 kW   |
| Tension   | Circuit principal 690 V AC<br>Circuit principal 250 V DC  |
| Courant nominal de<br>fonctionnement ( $I_e$ )                            | 0.25 A  |
| Courant assignée<br>d'emploi AC-3 ( $I_e$ )                               | 0.25 A  |
| Courant assignée<br>d'emploi AC-3e ( $I_e$ )                              | 0.25 A  |
| Courant assignée<br>d'emploi DC-5 ( $I_e$ )                               | 0.25 A  |
| Fréquence assignée (f)  | Circuit principal 50 Hz<br>Circuit principal 60 Hz  |
| Operating Frequency ( $f_{sw}$ )  | 0 ... 400 Hz  |
| Tension assignée de<br>tenue aux chocs ( $U_{imp}$ )                      | Circuit principal 6 kV  |
| Tension assignée<br>d'isolement ( $U_i$ )                                 | 690 V   |

|  |   |  |
|--|---|--|
| Power Loss   | at Rated Operating Conditions per Pole 0.7 ... 1.6 W  |  |
| Nombre de pôles  | 3   |  |
| Mounted Auxiliary Contacts                                 | 1 NO, 1 NC  |  |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | Main Circuit 0.25 A   |  |
| Indice de protection                                       | Housing IP20<br>Main Circuit Terminals IP10   |  |
| Degré de pollution   | 3   |  |
| Electrical Durability                                      | 50000 cycle   |  |
| Durabilite mecanique                                       | 100000 cycle  |  |
| Type de borne  | Screw Terminals   |  |
| Connecting Capacity Main Circuit                           | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup>  |  |
| Connecting Capacity Auxiliary Circuit                      | Flexible with Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 1.5 mm <sup>2</sup>  |  |
| Couple de serrage  | Main Circuit 0.8 ... 1.2 N·m  |  |
| Wire Stripping Length                                      | Auxiliary Circuit 8 mm<br>Main Circuit 9 mm   |  |
| Recommended Screw Driver                                   | Poizdriv 2  |  |
| Type d'encastrement  | 1 ... 6   |  |
| Montage sur rail DIN                                       | 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   |  |
| Normes et standards  | IEC/EN 60947-1<br>IEC/EN 60947-2<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1  |  |
| Remarques  | UL508 Self-Protected Combination Motor Controller (Type E) in combination with feeder block S1-M3-xx  |  |

## Technique 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<br>Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 65 kA<br>Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 47 kA<br>Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 65 kA<br>Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 47 kA<br>Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC) 65 kA<br>Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 47 kA |
| Maximum Operating Voltage UL/CSA    | Circuit auxiliaire 250 V AC/DC<br>Circuit principal 600 V AC  |
| Full Load Amps Motor Use            | (200 V AC) Three Phase 0.25 A<br>(208 V AC) Three Phase 0.25 A<br>(220 ... 240 V AC) Three Phase 0.25 A<br>(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<br>(208 V AC) Three Phase 1.5 A<br>(220 ... 240 V AC) Three Phase 1.5 A<br>(440 ... 480 V AC) Three Phase 1.5 A<br>(550 ... 600 V AC) Three Phase 1.5 A |
| General Use Rating<br>UL/CSA                    | (600 V AC) 0.25 A  |
| Connecting Capacity Main<br>Circuit UL/CSA      | Flexible 1/2x 16-12 AWG<br>Stranded 1/2x 16-12 AWG   |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Flexible 1/2x 16-14 AWG<br>Stranded 1/2x 16-14 AWG   |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 7 in-lb<br>Main Circuit 10 ... 12 in-lb  |
| Contact Rating UL/CSA                           | B300<br>R300   |

## Environnement

|   |  |
|---|--|
| Température de l'air<br>ambiant                     | Operation -25 ... +70 °C<br>Operation Compensated -25 ... +60 °C<br>Storage -50 ... +80 °C |
| Ambient Air Temperature<br>Compensation             | Oui  |
| Altitude de<br>fonctionnement maximale<br>autorisée | 2000 m   |
| REACH Declaration                                   | 1SAA963005-4502  |
| Résistance aux chocs<br>selon CEI 60068-2-27        | 11 ms Pulse 25g  |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6   | 5g / 3 ... 150 Hz  |
| Informations RoHS                                   | 1SAA963006-4502  |
| Statut RoHS   | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019                     |

## Certificats et Déclarations (Numéro de document)

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Certificat ABS                      | 1SAA963001-0101                    |
| Certificat ATEX                     | 1SAA963000-3902                    |
| Certificat BV                       | 1SAA963001-0201                    |
| CB Certificate                      | 1SAA963002-2002                    |
| CQC Certificate                     | CQC2017010307034621                |
| Cut-off Current<br>Characteristic   | 1SAM300508F0001<br>1SAM300508F0003 |
| Declaration of Conformity<br>- CCC  | 2020980307004600                   |
| Déclaration de Conformité<br>- CE   | 1SAD101100-3402                    |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3402                    |
| Certificat DNV                      | 1SAA963001-0303                    |
| EAC Certificate                     | 1SAA963000-2701                    |
| Certificat GL                       | 1SAA963001-0401                    |
| I <sup>2</sup> t Characteristic     | 1SAM300507F0001<br>1SAM300507F0003 |
| KC Certificate                      | 1SAA963002-1502                    |
| Certificat LR                       | 1SAA963001-0502                    |
| Certificat RINA                     | 1SAA963002-0802                    |
| Certificat RMRS                     | 1SAA918000-0704                    |

Certificat UL

E137861-20090225  
E345003-20090225**Emballage**

|                             |                 |
|-----------------------------|-----------------|
| Emballage Niveau 1 Unités   | box 1 pièce     |
| Emballage Niveau 1 Largeur  | 92 mm           |
| Emballage Niveau 1 Longueur | 95 mm           |
| Emballage Niveau 1 Hauteur  | 50 mm           |
| Emballage Niveau 1 Poids    | 0.246 kg        |
| Emballage Niveau 1 EAN      | 4013614404429   |
| Emballage Niveau 2 Unités   | carton 40 pièce |
| Emballage Niveau 2 Largeur  | 280 mm          |
| Emballage Niveau 2 Longueur | 395 mm          |
| Emballage Niveau 2 Hauteur  | 210 mm          |
| Emballage Niveau 2 Poids    | 10.226 kg       |
| Emballage Niveau 2 EAN      | 4013614409073   |

**Classifications**

|  |   |
|--|---|
| Code de classification d'objet           | F   |
| ETIM 4                                   | EC000074 - Motor protective circuit-breaker             |
| ETIM 5                                   | EC000074 - Motor protective circuit-breaker             |
| ETIM 6                                   | EC000074 - disjoncteur/démarrreur de moteur             |
| ETIM 7                                   | EC000074 - Motor protection circuit-breaker             |
| ETIM 8                                   | EC000074 - Motor protection circuit-breaker             |
| eClass                                   | V11.0 : 27370401  |
| UNSPSC                                   | 39121521  |
| Code de catégorie granulaire IDEA (IGCC) | 4845 >> 3 Pole Motor Circuit Protector Circuit Breakers |
| E-Number (Finland)                       | 3705901   |

**Accessories**

| Identifiant     | 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 Signaling Contact               | SK1-20      | 1 | piece |
| 1SAM201903R1202 | SK1-20K Signaling Contact              | SK1-20K     | 1 | piece |
| 1SAM201903R1005 | SK1-20AR Signaling Contact             | SK1-20AR    | 1 | piece |
| 1SAM201903R1205 | SK1-20ARK Signaling Contact            | SK1-20ARK   | 1 | piece |
| 1SAM201903R1001 | SK1-11 Signaling Contact               | SK1-11      | 1 | piece |
| 1SAM201903R1201 | SK1-11K Signaling Contact              | SK1-11K     | 1 | piece |
| 1SAM201903R1004 | SK1-11AR Signaling Contact             | SK1-11AR    | 1 | piece |
| 1SAM201903R1204 | SK1-11ARK Signaling Contact            | SK1-11ARK   | 1 | piece |
| 1SAM201903R1003 | SK1-02 Signaling Contact               | SK1-02      | 1 | piece |
| 1SAM201903R1203 | SK1-02K Signaling Contact              | SK1-02K     | 1 | piece |
| 1SAM201903R1006 | SK1-02AR Signaling Contact             | SK1-02AR    | 1 | piece |
| 1SAM201903R1206 | SK1-02ARK Signaling Contact            | SK1-02ARK   | 1 | piece |
| 1SAM301901R1002 | CK1-20 Short Circuit Signaling Contact | CK1-20      | 1 | piece |
| 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 |
| 1SAM301911R1001 | TS1-M3-S1 Terminal Spacer               | TS1-M3-S1  | 1 | piece |
| 1SAM301912R1001 | TS1-M3-S2 Terminal Spacer               | S1-M3-S2   | 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 |
| 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 |
| 1SCA101647R1001 | OXS6X85 SHAFT                           | OXS6X85    | 1 | piece |
| 1SCA108043R1001 | OXS6X105 SHAFT                          | OXS6X105   | 1 | piece |
| 1SCA101655R1001 | OXS6X130 SHAFT                          | OXS6X130   | 1 | piece |
| 1SCA101659R1001 | OXS6X180 SHAFT                          | OXS6X180   | 1 | piece |

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## Catégories

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Produits basse tension → Disjoncteurs de puissance → Disjoncteurs-moteurs

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Disjoncteurs-moteurs → Disjoncteurs-moteurs

