

PRODUCT-DETAILS

# MS132-0.16K

## MS132-0.16K Manual Motor Starter 0.10 ... 0.16 A



### Informations générales

|                              |  |
|------------------------------|--|
| Extension du type de produit | MS132-0.16K                                      |
| Code de produit              | 1SAM350010R1001                                  |
| EAN                          | 4013614400315                                    |
| Description courte           | MS132-0.16K Manual Motor Starter 0.10 ... 0.16 A |

### Description longue

The MS132-0.16K 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  $I_e = 0.16$  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  $I_{cs} = 100$  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 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.

### Commande

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

### Downloads Préférés

|  |                 |
|--|-----------------|
| Fiche produit, informations techniques | 1SBC100212C0203 |
|--|-----------------|

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Instructions et manuels               | 2CDC131120M6801                    |
| Instructions et manuels<br>(Partie 2) | 2CDC131060M0202                    |
| Ex Operating Instructions             | 2CDC131063M6801                    |
| Time-Current<br>Characteristic Curve  | 1SAM300505F0101                    |
| I <sup>2</sup> t Characteristic       | 1SAM300507F0001<br>1SAM300507F0003 |
| Cut-off Current<br>Characteristic     | 1SAM300508F0001<br>1SAM300508F0003 |
| CAD Dimensional<br>Drawing            | 2CDC001079B0201                    |
| Installation Video                    | 9AKK108466A6074<br>9AKK108466A6068 |
| Marketing Video                       | 9AKK107991A4712<br>2CDC131153V0201 |

## Dimensions

|                      |          |
|----------------------|----------|
| Produit Largeur Net  | 45 mm    |
| Produit Hauteur Net  | 112 mm   |
| Produit Longueur Net | 87 mm    |
| Poids net            | 0.256 kg |

## Technique

|   |   |
|---|---|
| Pouvoir assigné de<br>coupure de service en<br>court-circuit (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 |
| Pouvoir assigné de<br>coupure ultime en court-<br>circuit (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                                       |
| Courant assigné<br>instantané de réglage de<br>court-circuit (I <sub>r</sub> )  | 2 A   |
| Setting Range   | 0.10 ... 0.16 A   |
| Puissance assignée<br>d'emploi AC-3 (P <sub>e</sub> )                           | (400 V) Three Phase 0.03 kW   |
| Puissance assignée<br>d'emploi AC-3e (P <sub>e</sub> )                          | (400 V) Three Phase 0.03 kW   |
| Tension   | Circuit principal 690 V AC<br>Circuit principal 250 V DC  |
| Courant nominal de<br>fonctionnement (I <sub>e</sub> )                          | 0.16 A  |
| Courant assignée<br>d'emploi AC-3 (I <sub>e</sub> )                             | 0.16 A  |
| Courant assignée<br>d'emploi AC-3e (I <sub>e</sub> )                            | 0.16 A  |
| Courant assignée<br>d'emploi DC-5 (I <sub>e</sub> )                             | 0.16 A  |
| Fréquence assignée (f)  | Circuit principal 50 Hz<br>Circuit principal 60 Hz  |
| Operating Frequency (f <sub>sw</sub> )  | 0 ... 400 Hz  |
| Tension assignée de<br>tenue aux chocs (U <sub>imp</sub> )                      | Circuit principal 6 kV  |

|  |   |
|--|---|
| Tension assignée d'isolement (U <sub>i</sub> )                   | 690 V   |
| Power Loss   | at Rated Operating Conditions per Pole 0.7 ... 1.7 W  |
| Nombre de pôles  | 3   |
| Courant thermique conventionnel à l'air libre (I <sub>th</sub> ) | Main Circuit 0.16 A   |
| Indice de protection   | Housing IP20<br>Main Circuit Terminals IP20   |
| Degré de pollution   | 3   |
| Electrical Durability  | 50000 cycle   |
| Durabilite mecanique   | 100000 cycle  |
| Type de borne  | 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  |
| 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>UL 60947-1<br>UL 60947-4-1  |
| Remarques  | UL508 Self-Protected Combination Motor Controller (Type E) in combination with terminal spacer TS1-M3-K   |

## Technique UL/CSA

|                                     |  |
|-------------------------------------|--|
| Short-Circuit Current Rating (SCCR) | Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC) 65 kA<br>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 principal 600 V AC   |
| Full Load Amps Motor Use            | (200 V AC) Three Phase 0.16 A<br>(208 V AC) Three Phase 0.16 A<br>(220 ... 240 V AC) Three Phase 0.16 A<br>(440 ... 480 V AC) Three Phase 0.16 A<br>(550 ... 600 V AC) Three Phase 0.16 A  |
| Locked Rotor Amps                   | (200 V AC) Three Phase 0.96 A<br>(208 V AC) Three Phase 0.96 A<br>(220 ... 240 V AC) Three Phase 0.96 A<br>(440 ... 480 V AC) Three Phase 0.96 A   |

|  |  |
|--|--|
|  | (550 ... 600 V AC) Three Phase 0.96 A        |
| General Use Rating<br>UL/CSA               | (600 V AC) 0.16 A                            |
| Connecting Capacity Main<br>Circuit UL/CSA | Stranded 1/2x 18-10 AWG<br>Stranded 1x 8 AWG |

## Environnement

|   |   |
|---|---|
| Température de l'air<br>ambiant                     | 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             | 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                      |
| 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                      |
| EAC Certificate                     | 1SAA963004-2701                      |
| I <sup>pt</sup> Characteristic      | 1SAM300507F0001<br>1SAM300507F0003   |
| IECEx Certificate                   | 1SAA963000-4001                      |
| KC Certificate                      | 1SAA963002-1502                      |
| Certificat RINA                     | 1SAA963002-0802                      |
| Certificat UL                       | E137861-20090225<br>E345003-20090225 |

## Emballage

|                                |             |
|--------------------------------|-------------|
| Emballage Niveau 1<br>Unités   | box 1 pièce |
| Emballage Niveau 1<br>Largeur  | 50 mm       |
| Emballage Niveau 1<br>Longueur | 117 mm      |
| Emballage Niveau 1<br>Hauteur  | 82 mm       |

|                             |                 |
|-----------------------------|-----------------|
| Emballage Niveau 1 Poids    | 0.282 kg        |
| Emballage Niveau 1 EAN      | 4013614400315   |
| Emballage Niveau 2 Unités   | carton 28 pièce |
| Emballage Niveau 2 Largeur  | 280 mm          |
| Emballage Niveau 2 Longueur | 395 mm          |
| Emballage Niveau 2 Hauteur  | 210 mm          |
| Emballage Niveau 2 Poids    | 14.026 kg       |

## Classifications

|  |   |
|--|---|
| Code de classification d'objet           | F   |
| 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) | 4731 >> Manual Starters                     |
| E-Number (Finland)                       | 3707831                                     |
| E-Number (Sweden)                        | 3110450                                     |

## 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 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 |
| 1SAM301903R1002 | PS1-2-0-65K Busbar                      | PS1-2-0-65K | 1 | piece |
| 1SAM301903R1003 | PS1-3-0-65K Busbar                      | PS1-3-0-65K | 1 | piece |
| 1SAM301903R1004 | PS1-4-0-65K Busbar                      | PS1-4-0-65K | 1 | piece |
| 1SAM301903R1005 | PS1-5-0-65K Busbar                      | PS1-5-0-65K | 1 | piece |
| 1SAM301903R1012 | PS1-2-1-65K Busbar                      | PS1-2-1-65K | 1 | piece |
| 1SAM301903R1013 | PS1-3-1-65K Busbar                      | PS1-3-1-65K | 1 | piece |
| 1SAM301903R1014 | PS1-4-1-65K Busbar                      | PS1-4-1-65K | 1 | piece |
| 1SAM301903R1015 | PS1-5-1-65K Busbar                      | PS1-5-1-65K | 1 | piece |
| 1SAM201909R1001 | FS116 Screw Fixing Kit                  | FS116       | 1 | piece |
| 1SAM301913R1001 | TS1-M3-K Terminal Spacer                | TS1-M3-K    | 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 |
| 1SAM201920R1000 | MSH-AR Shaft Alignment Ring             | MSH-AR      | 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

