

PRODUCT-DETAILS

MS132-2.5T

MS132-2.5T Circuit Breaker for Primary Transformer Protection 1.6 ... 2.5 A



Informations générales

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|------------------------------|---|
| Extension du type de produit | MS132-2.5T |
| Code de produit | 1SAM340000R1007 |
| EAN | 4013614484971 |
| Description courte | MS132-2.5T Circuit Breaker for Primary Transformer Protection 1.6 ... 2.5 A |

Description longue

The circuit breaker for transformer protection MS132-2.5T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of $I_e = 2.5$ A. It allows fuse-less protection against overload and short-circuit. The short-circuit current setting is fixed to 20 times the rated operational current to handle the high inrush current generated by transformers. The device allows manually connect and disconnect the transformer from the mains thanks of its built-in disconnection function. The circuit breaker for transformer protection offers a rated service short-circuit breaking capacity of $I_{cs} = 100$ kA at 400 VAC and a trip class 10. Further features are temperature compensation, trip-free mechanism, rotary handle with a clear switch position indication and short circuit trip indicator. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, power in-feed blocks and terminal spacers are available as accessory.

Commande

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

Downloads Préférés

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|-----------------------------|-----------------|
| Fiche produit, informations | 2CDC131058D0201 |
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techniques

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|---------------------------------------|-----------------|
| Instructions et manuels | 2CDC131057M6801 |
| Instructions et manuels (Partie 2) | 2CDC131060M0202 |
| Time-Current Characteristic Curve | 1SAM300535F0007 |
| I ^t Characteristic | 1SAM300517F0001 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Schéma dimensionnel | 1SAM300402F0001 |

Dimensions

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|----------------------|----------|
| Produit Largeur Net | 45 mm |
| Produit Hauteur Net | 90 mm |
| Produit Longueur Net | 86.75 mm |
| Poids net | 0.265 kg |

Technique

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| Pouvoir assigné de coupure de service en court-circuit (I_{CS}) | (230 V AC) 100 kA (400 V AC) 100 kA |
| Pouvoir assigné de coupure ultime en court- circuit (I_{CU}) | (400 V AC) 100 kA |
| Courant assigné instantané de réglage de court-circuit (I_I) | 50 A |
| Setting Range | 1.6 ... 2.5 A |
| Tension | Circuit principal 690 V AC |
| Courant nominal de fonctionnement (I_E) | 2.5 A |
| Fréquence assignée (f) | Circuit principal 50 Hz Circuit principal 60 Hz |
| Operating Frequency (f_{sw}) | 0 ... 400 Hz |
| Tension assignée de tenue aux chocs (U_{imp}) | Circuit principal 6 kV |
| Tension assignée d'isolement (U_i) | 690 V |
| Power Loss | at Rated Operating Conditions per Pole 0.6 ... 1.6 W |
| Nombre de pôles | 3 |
| Courant thermique conventionnel à l'air libre (I_{th}) | Main Circuit 2.5 A |
| Indice de protection | Housing IP20 Main Circuit Terminals IP10 |
| Degré de pollution | 3 |
| Electrical Durability | 50000 cycle |
| Durabilité mécanique | 100000 cycle |
| Type de borne | 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 |
| Couple de serrage | Main Circuit 0.8 ... 1.2 N·m |
| Wire Stripping Length | Main Circuit 9 mm |

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|-----------------------------|---|
| Recommended Screw Driver | M3.5 Pozidriv 2 |
| Type d'encastrement | 1 ... 6 |
| Montage sur rail DIN | 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, Vertical 75 mm Other Device Same Type, Horizontal 9 mm Other Device Same Type, Vertical 150 mm |
| Actuator Type | Rotary Handle |
| Contact Position Indication | ON / OFF / TRIP |
| Normes et standards | IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 |

Technique UL/CSA

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| Short-Circuit Current Rating (SCCR) | 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 |
| Maximum Operating Voltage UL/CSA | Circuit principal 600 V AC |
| Puissance nominale UL/CSA | (220 ... 240 V AC) Single Phase 0.17 Hp |
| Full Load Amps Motor Use | (120 V AC) Single Phase 2.5 A (220 ... 240 V AC) Single Phase 2.5 A |
| Locked Rotor Amps | (120 V AC) Single Phase 15 A (220 ... 240 V AC) Single Phase 15 A |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG |
| Tightening Torque UL/CSA | Main Circuit 10 ... 12 in-lb |

Environnement

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| Température de l'air ambiant | Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C |
| Ambient Air Temperature Compensation | Oui |
| Altitude de fonctionnement maximale autorisée | 2000 m |
| REACH Declaration | 1SAA963005-4502 |
| Résistance aux chocs selon CEI 60068-2-27 | 11 ms Pulse 25g |
| Resistance to Vibrations 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)

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|---------------------------------|---------------------|
| CQC Certificate | CQC2010010307387700 |
| Declaration of Conformity - CCC | 2020980307003526 |
| Déclaration de Conformité - CE | 1SAD101100-3404 |

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|-------------------------------------|------------------|
| Declaration of Conformity - UKCA | 1SAD201100-3404 |
| Part Characteristic | 1SAM300517F0001 |
| KC Certificate | 1SAA963002-1502 |
| Certificat RMRS | 1SAA918000-0704 |
| Certificat UL | E137861-20090225 |

Emballage

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|--------------------------------|-----------------|
| 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 | 0.28 kg |
| Emballage Niveau 1 EAN | 4013614484971 |
| 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 | 11.586 kg |
| Emballage Niveau 2 EAN | 4013614487170 |

Classifications

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| Code de classification d'objet | F |
| ETIM 4 | EC000228 - Power circuit-breaker for trafo/generator/installation prot. |
| ETIM 5 | EC000228 - Power circuit-breaker for trafo/generator/installation prot. |
| ETIM 6 | EC000228 - disjoncteur pour transformateur, générateur et protection d'installation |
| ETIM 7 | EC000228 - Power circuit-breaker for trafo/generator/installation protection |
| ETIM 8 | EC000228 - Power circuit-breaker for trafo/generator/installation protection |
| eClass | V11.0 : 27370409 |
| UNSPSC | 39121601 |
| Code de catégorie granulaire IDEA (IGCC) | 4864 >> Enclosed 3 Pole Circuit Breakers |
| E-Number (Finland) | 3707274 |

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 |

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|-----------------|--|-------------|---|-------|
| 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 |

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|-----------------|---|-------------|---|-------|
| 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 |

Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Disjoncteurs-moteurs → Manual Motor Starters for Special Use

