

PRODUCT-DETAILS

# S402M-C20

## S402M-C20 Miniature Circuit Breaker



### Informations générales

|                              |  |
|------------------------------|--|
| Extension du type de produit | S402M-C20  |
| Code de produit              | 2CCS572001R0204  |
| EAN                          | 7612270102204  |
| Description courte           | S402M-C20 Miniature Circuit Breaker  |
| Description longue           | SMISLINE TP S400M are a current limiting miniature circuit breakers. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K), configurations (1P,1P+N,2P,3P,3P+N), breaking capacities (up to 10 kA at 240/415 V AC ) and rated currents (up to 63A). MCBs of the product range S400M are comply with IEC/EN 60898-1 for B,C and D characteristic and IEC/EN 60947-2 for C and K characteristic. The pluggable solution is only for the SMISLINE TP System, allowing the use for commercial, industrial, and critical power applications. |

### Technique

|  |  |
|--|--|
| Normes et standards                            | IEC/EN 60898-1<br>IEC/EN 60947-2   |
| Tripping Characteristic                        | C  |
| Tension  | acc. to IEC 60898-1 415 V  |
| Operational Voltage                            | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC<br>Minimum 12 V DC |
| Tension assignée d'isolement (U <sub>i</sub> ) | acc. to IEC/EN 60664-1 440 V   |

|  |   |
|--|---|
| Tension assignée de tenue aux chocs ( $U_{imp}$ )                            | 4 kV  |
| Type de tension  | AC  |
| Courant nominal ( $I_n$ )  | 20 A  |
| Courant nominal de fonctionnement ( $I_e$ )                                  | 20 A  |
| Rated Short-Circuit Capacity   | (230 V) 10 kA<br>(400 V) 10 kA  |
| Pouvoir assigné de coupure ultime en court-circuit ( $I_{cu}$ )              | (230 V) 15 kA<br>(400 V) 15 kA  |
| Rated Short-Circuit Making Capacity ( $I_{cm}$ )                             | (415 V AC) 30 kA<br>(440 V AC) 9 kA                                       |
| Pouvoir assigné de coupure de service en court-circuit ( $I_{cs}$ )          | (240 V AC) 7.5 kA<br>(415 V AC) 7.5 kA<br>(440 V AC) 3 kA                 |
| Rated Service Short-Circuit Breaking Capacity, in % of $I_{cu}$ ( $I_{cs}$ ) | 50 %  |
| Fréquence (f)  | 50 ... 60 Hz  |
| Fréquence assignée (f)   | 50 ... 60 Hz  |
| Power Loss   | 4 W   |
| Power Supply Connection  | Arbitrary   |
| Contact Position Indication  | Red ON / Green OFF  |
| Classe de limitation d'énergie   | 3   |
| Electrical Endurance   | 10000 cycle   |
| Mechanical Endurance   | 10000 cycle   |
| Number of Protected Poles  | 2   |
| Nombre de pôles  | 2   |
| Catégorie de Surtension  | III   |
| Couple de serrage  | 2.8 N·m   |
| Type de libération   | C   |
| Screw Terminal Type  | Failsafe Bi-directional Cylinder-lift Terminal                            |
| Actuator Marking   | I / O   |
| Type d'encastrement  | Any   |
| Recommended Screw Driver   | Pozidriv 2  |
| Accessories Available  | Oui   |
| Connecting Capacity  | Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup> |
| Type de borne  | Screw Terminals   |

## Environnement

|  |   |
|--|---|
| Température de l'air ambiant                   | Operation -25 ... 60 °C   |
| Reference Ambient Air Temperature              | 30 °C   |
| Indice de protection                           | IP20  |
| Degré de pollution                             | 3   |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2...13.2 Hz/1 mm<br>13.2...100Hz/0.7 g, 5 cycles<br>5...150 ... 5 Hz/1 g, 4 waves |
| Statut RoHS                                    | Following EU Directive 2002/95/EC August 18, 2005 and amendment                   |

|   |                 |
|---|-----------------|
| Informations RoHS                           | 9AKK107991A9634 |
| Informations environnementales              | 9AKK108467A9561 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

## Dimensions

|   |                 |
|---|-----------------|
| Width in Number of Modular Spacings         | 2               |
| Produit Largeur Net                         | 36 mm           |
| Produit Hauteur Net                         | 91 mm           |
| Produit Longueur Net                        | 82 mm           |
| Poids net                                   | 221 g           |
| Taille                                      | 2 modules       |
| Profondeur d'encastrement (t <sub>2</sub> ) | 75 mm           |
| Schéma dimensionnel                         | 9AKK107492A6192 |

## Commande

|                           |                |
|---------------------------|----------------|
| Emballage Niveau 1 Unités | carton 5 pièce |
| Emballage Niveau 1 Poids  | 1170 g         |
| E-Number (Switzerland)    | 809150807      |

## Certificats et Déclarations (Numéro de document)

|                                |                 |
|--------------------------------|-----------------|
| Déclaration de Conformité - CE | 9AKK107991A9634 |
|--------------------------------|-----------------|

## Installation

|                         |                 |
|-------------------------|-----------------|
| Instructions et manuels | 2CCC451019M0109 |
|-------------------------|-----------------|

## Downloads Préférés

|  |                 |
|--|-----------------|
| Fiche produit, informations techniques | 9AKK107492A6192 |
|--|-----------------|

## Classifications

|                                |  |
|--------------------------------|--|
| ETIM 8                         | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                         | EC000042 - Miniature circuit breaker (MCB)                 |
| Catégorie DEEE                 | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                 | Business To Business                                       |
| CN8                            | 85362020   |
| eClass                         | V11.0 : 27141901   |
| Code de classification d'objet | FC   |

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**Accessories**


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| Identifier      | Description | Type  | Quantity | Unit Of Measure |
|-----------------|-------------|---|----------|-----------------|
| 2CCS500900R0081 | HK40011-L   | HK40011-L<br>Auxiliary switch                 | 1        | piece           |
| 2CCS500900R0214 | HK40011-R   | HK40011-R<br>Auxiliary switch                 | 1        | piece           |
| 2CCF201112R0001 | HK40020-L   | HK40020-L<br>Auxiliary switch                 | 1        | piece           |
| 2CCF201114R0001 | HK40002-L   | HK40002-L<br>Auxiliary switch                 | 1        | piece           |
| 2CCF201113R0001 | HK40020-R   | HK40020-R<br>Auxiliary switch                 | 1        | piece           |
| 2CCF201115R0001 | HK40002-R   | HK40002-R<br>Auxiliary switch                 | 1        | piece           |
| 2CCS500900R0101 | SK40011-L   | SK40011-L<br>Signal contact                   | 1        | piece           |
| 2CCS500900R0215 | SK40011-R   | SK40011-R<br>Signal contact                   | 1        | piece           |
| 2CCF201162R0001 | SK40020-L   | SK40020-L<br>Signal contact                   | 1        | piece           |
| 2CCF201164R0001 | SK40002-L   | SK40002-L<br>Signal contact                   | 1        | piece           |
| 2CCF201163R0001 | SK40020-R   | SK40020-R<br>Signal contact                   | 1        | piece           |
| 2CCF201165R0001 | SK40002-R   | SK40002-R<br>Signal contact                   | 1        | piece           |
| 2CCS500900R0141 | SK40010-LSA | SK40010-LSA<br>Signal contact                 | 1        | piece           |
| 2CCF201212R0001 | HK40010-LSA | HK400 10-L<br>SA Auxiliary switch             | 1        | piece           |
| 2CCS500900R0216 | SK40010-RSA | SK40010-RSA<br>Signal contact                 | 1        | piece           |
| 2CCF201213R0001 | HK40010-RSA | HK400 10-R<br>SA Auxiliary switch             | 1        | piece           |
| 2CCS500900R0161 | ZLS931      | ZLS931 Spare parts                            | 1        | piece           |
| 2CCS500900R0021 | NT40163     | NT401-63<br>Neutral disconnect terminal block | 1        | piece           |
| 2CCS500900R0011 | NT40263     | NT402-63<br>Neutral disconnect terminal block | 1        | piece           |
| 2CDS200909R0001 | S2C-A1      | S2C-A1 Shunt Trip                             | 1        | piece           |
| 2CDS200909R0002 | S2C-A2      | S2C-A2 Shunt Trip                             | 1        | piece           |
| 2CCA880212R0001 | CMS-122PS   | CMS-122PS<br>Sensor                           | 2        | piece           |
| 2CCA880102R0001 | CMS-102PS   | CMS-102PS<br>Sensor                           | 2        | piece           |

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**Catégories**


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Produits basse tension → Appareillage modulaire et parafoudres → Plug-in Distribution Systems → Système Smisline → Miniature Circuit Breakers MCBs

