

## PRODUCT-DETAILS

# S802C-C80

## S802C-C80 High Performance MCB



### Informations générales

|                              |                                |
|------------------------------|--------------------------------|
| Extension du type de produit | S802C-C80                      |
| Code de produit              | 2CCS882001R0804                |
| EAN                          | 7612271213572                  |
| Description courte           | S802C-C80 High Performance MCB |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description longue | <p>The S802C-C80 is a 2-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 80 A. It is a current limiting device with a maximum breaking capacity of 25kA at 240/415V. It can be used for voltages up to 254/440V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S802C-C80 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S802C-C80 more comfortable. Due to the fast arc extinction of S802C-C80 your application will be secured.</p> |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Technique

|                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| Normes et standards        | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077                                                      |
| Tripping Characteristic    | C                                                                                            |
| Tension nominale ( $U_r$ ) | acc. to IEC 60947-2 440 V AC<br>acc. to IEC 60947-2 250 V DC<br>acc. to IEC 60898-1 400 V AC |
| Tension                    | acc. to IEC 60947-2 440 V AC<br>acc. to IEC 60947-2 250 V DC<br>acc. to IEC 60898-1 400 V AC |

|                                                                     |                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Operational Voltage                                                 | Maximum 230/400 V AC<br>Minimum 12 V AC                                                                              |
| Tension assignée d'isolement ( $U_i$ )                              | acc. to IEC/EN 60664-1 500 V                                                                                         |
| Tension assignée de tenue aux chocs ( $U_{imp}$ )                   | 8 kV                                                                                                                 |
| Type de tension                                                     | AC/DC                                                                                                                |
| Courant nominal ( $I_n$ )                                           | 80 A                                                                                                                 |
| Rated Operational Current ( $I_e$ )                                 | 80 A                                                                                                                 |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                           | (400 V) 15 kA<br>(230 V) 15 kA                                                                                       |
| Pouvoir assigné de coupure ultime en court-circuit ( $I_{cu}$ )     | (240 / 415 V AC) 25 kA<br>(254 / 440 V AC) 15 kA<br>(250 V DC) 10 kA<br>(230 V) 25 kA<br>(400 V) 25 kA               |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )                | (230 V) 25 kA<br>(400 V) 25 kA                                                                                       |
| Pouvoir assigné de coupure de service en court-circuit ( $I_{cs}$ ) | (240 / 415 V AC) 18 kA<br>(254 / 440 V AC) 10 kA<br>(125 V DC) 10 kA                                                 |
| Fréquence (f)                                                       | 50 / 60 Hz                                                                                                           |
| Fréquence assignée (f)                                              | 50...60 Hz                                                                                                           |
| Power Loss                                                          | 12.8 W<br>at Rated Operating Conditions per Pole 6.4 W                                                               |
| Contact Position Indication                                         | ON / OFF / TRIP                                                                                                      |
| Classe de limitation d'énergie                                      | 3                                                                                                                    |
| Electrical Endurance                                                | 6000 cycle<br>4000 cycle                                                                                             |
| Nombre de pôles                                                     | 2                                                                                                                    |
| Number of Protected Poles                                           | 2                                                                                                                    |
| Catégorie de Surtension                                             | IV                                                                                                                   |
| Tightening Torque                                                   | 3.5 N·m<br>31 in·lb                                                                                                  |
| Release Type                                                        | C                                                                                                                    |
| Actuator Marking                                                    | I / O                                                                                                                |
| Qualité du matériau                                                 | Insulation group I, RAL 7035                                                                                         |
| 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       |
| Type d'encastrement                                                 | Any                                                                                                                  |
| Recommended Screw Driver                                            | Pozidriv 2                                                                                                           |
| Accessories Available                                               | Oui                                                                                                                  |
| Remarks                                                             | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Connecting Capacity                                                 | Rigid 0 ... 50 mm <sup>2</sup><br>Flexible 0 ... 70 mm <sup>2</sup>                                                  |
| Terminal Type                                                       | Screw Terminals                                                                                                      |

## Environnement

|                                                   |                                                           |
|---------------------------------------------------|-----------------------------------------------------------|
| Température extérieure                            | -25...60 °C                                               |
| Température de l'air ambiant                      | Operation -25...60 °C                                     |
| Reference Ambient Air Temperature                 | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C       |
| Indice de protection                              | IP20                                                      |
| Degré de pollution                                | 3                                                         |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le |
| Resistance to Shock acc.<br>to IEC 60068-2-27     | 5 g<br>30 ms                                              |
| RoHS Status                                       | Following EU Directive 2011/65/EU                         |
| Environmental Information                         | 2CCY413207D0203                                           |

## Technique UL/CSA

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Interrupting Rating acc. to<br>UL1077 | (480Y / 277 V AC) 10 kA<br>(250 V DC) 10 kA |
|---------------------------------------|---------------------------------------------|

## Dimensions

|                                                |         |
|------------------------------------------------|---------|
| Width in Number of<br>Modular Spacings         | 3       |
| Produit Largeur Net                            | 54 mm   |
| Produit Hauteur Net                            | 95 mm   |
| Produit Longueur Net                           | 82.5 mm |
| Poids net                                      | 490 g   |
| Produit Longueur Net                           | 54 mm   |
| Profondeur<br>d'encastrement (t <sub>2</sub> ) | 82.5 mm |

## Emballage

|                                |               |
|--------------------------------|---------------|
| Emballage Niveau 1<br>Unités   | box 1 pièce   |
| Emballage Niveau 1<br>Largeur  | 105 mm        |
| Emballage Niveau 1<br>Hauteur  | 99 mm         |
| Emballage Niveau 1<br>Longueur | 60 mm         |
| Emballage Niveau 1 Poids       | 510 g         |
| Emballage Niveau 1 EAN         | 7612271213572 |

## Commande

|                  |                  |
|------------------|------------------|
| Quantité minimum | 1 pièce          |
| Code douanier    | 85362090         |
| Pays d'origine   | Switzerland (CH) |

## Certificats et Déclarations (Numéro de document)

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Déclaration de Conformité<br>- CE | 2CCC005083D0202                  |
| Environmental Information         | 2CCY413207D0203                  |
| Instructions et manuels           | 2CCC413016M0008                  |
| RoHS Information                  | 2CCC005083D0202, 9AKK107680A3903 |

## Downloads Préférés

|                                           |                 |
|-------------------------------------------|-----------------|
| Fiche produit, informations<br>techniques | 2CCC413003C0208 |
| Instructions et manuels                   | 2CCC413016M0008 |
| Dimension Diagram                         | 2CCC413003C0201 |

## Classifications

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| ETIM 7                     | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB)                 |
| EPLAN Catalog Tree         | Electrical engineering / Protection devices / General      |
| Catégorie DEEE             | 5. Small Equipment (No External Dimension More Than 50 cm) |
| DEEE B2C / B2B             | Business To Business                                       |
| CN8                        | 85362020                                                   |
| Object Classification Code | F                                                          |

## Catégories

Produits basse tension → Appareillage modulaire et parafoudres → Disjoncteurs ≤125A S800/S500

