

## PRODUCT-DETAILS

# S803C-B100

## S803C-B100 High Performance MCB



### Ogólne informacje

|                       |                                 |
|-----------------------|---------------------------------|
| Extended Product Type | S803C-B100                      |
| ID Produktu           | 2CCS883001R0825                 |
| Numer EAN             | 7612271213701                   |
| Opis katalogowy       | S803C-B100 High Performance MCB |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Opis | <p>The S803C-B100 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 100 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.</p> <p>The S803C-B100 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 S803C-B100 more comfortable. Due to the fast arc extinction of S803C-B100 your application will be secured.</p> |
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### Dane techniczne

|                           |                                             |
|---------------------------|---------------------------------------------|
| Standardy                 | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |
| Liczba biegunów           | 3                                           |
| Number of Protected Poles | 3                                           |
| Tripping Characteristic   | B                                           |
|                           | 100 A                                       |

|                                                             |                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Prąd znamionowy ( $I_n$ )                                   |                                                                                                                      |
| Znamionowe napięcie pracy                                   | 254/440 V AC<br>375 V DC                                                                                             |
| Napięcie znamionowe ( $U_r$ )                               | 440 V                                                                                                                |
| Straty mocy                                                 | 24 W<br>na biegun 8 W                                                                                                |
| Znamionowe napięcie izolacji ( $U_i$ )                      | 500 V AC                                                                                                             |
| Operational Voltage                                         | Maximum 230/400 V AC<br>Minimum 12 V AC                                                                              |
| Częstotliwość znamionowa (f)                                | 50...60 Hz                                                                                                           |
| Znamionowy prąd zwarcia ( $I_{cn}$ )                        | (400 V) 15 kA<br>(230 V) 15 kA                                                                                       |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (240 / 415 V AC) 25 kA<br>(254 / 440 V AC) 15 kA<br>(375 V DC) 10 kA                                                 |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (240 / 415 V AC) 18 kA<br>(254 / 440 V AC) 10 kA<br>(375 V DC) 10 kA                                                 |
| Energy Limiting Class                                       | 3                                                                                                                    |
| Overvoltage Category                                        | IV                                                                                                                   |
| Stopień zanieczyszczenia                                    | 3                                                                                                                    |
| Znamionowa wytrzymałość na impuls napięciowy ( $U_{imp}$ )  | 8 kV                                                                                                                 |
| Materiał obudowy                                            | Insulation group I, RAL 7035                                                                                         |
| Actuator Marking                                            | I / O                                                                                                                |
| Contact Position Indication                                 | ON / OFF / TRIP                                                                                                      |
| Stopień ochrony obudowy                                     | IP20                                                                                                                 |
| Remarks                                                     | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Electrical Endurance                                        | 6000 cycle<br>4000 cycle                                                                                             |
| Typ terminala                                               | Screw Terminals                                                                                                      |
| Connecting Capacity                                         | Sztywny 0 ... 50 mm <sup>2</sup><br>Elastyczny 0 ... 70 mm <sup>2</sup>                                              |
| Momenty dokręcające                                         | 3.5 N·m<br>31 in·lb                                                                                                  |
| Recommended Screw Driver                                    | Pozidriv 2                                                                                                           |
| Montaż na szynie DIN                                        | TH35-15 (Szyna montażowa 35 x 15 mm) wg IEC 60715<br>TH35-7.5 (Szyna montażowa 35 x 7.5 mm) wg IEC 60715             |
| Pozycja montażu                                             | Any                                                                                                                  |
| Built-In Depth ( $t_2$ )                                    | 82.5 mm                                                                                                              |

## Normy środowiskowe

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Temperatura powietrza otoczenia   | Eksploatacja -25...60 °C                            |
| Reference Ambient Air Temperature | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C |

|                                         |                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Odpornosc na wstrząsy<br>IEC 60068-2-27 | 5 g<br>30 ms                                                                                                                                                                                                                                                                            |
| Odpornosc na wibracje<br>IEC 60068-2-6  | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le                                                                                                                                                                                                                               |
| Warunki środowiskowe                    | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle<br>Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96%<br>Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100%<br>Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C<br>Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C |
| Status RoHS                             | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                       |

## Technical UL/CSA

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Interrupting Rating acc. to<br>UL1077 | (480Y / 277 V AC) 10 kA<br>(375 V DC) 10 kA |
|---------------------------------------|---------------------------------------------|

## Wymiary

|                          |         |
|--------------------------|---------|
| Szerokość produktu netto | 81 mm   |
| Głębokość produktu netto | 82.5 mm |
| Wysokość produktu netto  | 95 mm   |
| Waga produktu netto      | 735 g   |

## Informacje o pakowaniu

|                                      |               |
|--------------------------------------|---------------|
| Jednostka opakowania<br>(poziom 1)   | box 1 sztuka  |
| Szerokość opakowania<br>(poziom 1)   | 105 mm        |
| Długość opakowania<br>(poziom 1)     | 86 mm         |
| Wysokość opakowania<br>(poziom 1)    | 99 mm         |
| Waga opakowania brutto<br>(poziom 1) | 770 g         |
| EAN opakowania (poziom<br>1)         | 7612271213701 |

## Charakterystyka zamówienia

|                               |          |
|-------------------------------|----------|
| Minimalna ilość<br>zamówienia | 1 sztuka |
| Kod taryfy celnej             | 85362020 |

## Certyfikaty i deklaracje (Numer dokumentu)

|                           |                                    |
|---------------------------|------------------------------------|
| Deklaracja zgodności - CE | 2CCC413016D0601                    |
| Informacje środowiskowe   | 2CCY413207D0203                    |
| Instrukcje i podręczniki  | 2CCC413016M0008                    |
| Dane RoHS                 | 2CCC413016D0601<br>9AKK107680A3903 |

| Najczęściej Pobierane                |                 |
|--------------------------------------|-----------------|
| Arkusz danych, informacja techniczna | 2CCC413003C0208 |
| Instrukcje i podręczniki             | 2CCC413016M0008 |
| Dimension Diagram                    | 2CCC413003C0201 |

| Klasyfikacje     |                                            |
|------------------|--------------------------------------------|
| Kod klasyfikacji | F                                          |
| ETIM 6           | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7           | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 8           | EC000042 - Miniature circuit breaker (MCB) |

| Kategorie                                                                                                                          |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|
| Produkty niskiego napięcia i systemy → Aparatura modułowa na szynę DIN → Wyłączniki nadmiarowe o wysokiej wytrzymałości zwarciowej |  |

