

PRODUCT-DETAILS

## S202M-D10

# Miniature Circuit Breaker - S200M - 2P - D - 10 ampere



### Ogólne informacje

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Extended Product Type | S202M-D10                                              |
| ID Produktu           | 2CDS272001R0101                                        |
| Numer EAN             | 4016779600477                                          |
| Opis katalogowy       | Miniature Circuit Breaker - S200M - 2P - D - 10 ampere |

#### Opis

System pro M compact S200M miniature circuit breakers are current limiting. 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,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 10 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200M comply with IEC/EN 60898-1 and IEC/EN 60947-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space.

### Dane techniczne

|                           |                                  |
|---------------------------|----------------------------------|
| Standardy                 | IEC/EN 60898-1<br>IEC/EN 60947-2 |
| Liczba biegunów           | 2                                |
| Number of Protected Poles | 2                                |
| Tripping Characteristic   | D                                |
| Prąd znamionowy ( $I_n$ ) | 10 A                             |
| Znamionowe napięcie       | zgodny z IEC60898-1 400 V AC     |

|                                                                   |                                                                                                                                                                                                             |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pracy                                                             | zgodny z IEC60947-2 440 V AC                                                                                                                                                                                |
| Straty mocy                                                       | 3.2 W<br>na biegun 1.6 W                                                                                                                                                                                    |
| Znamionowe napięcie izolacji ( $U_i$ )                            | wg IEC/EN 60664-1 440 V                                                                                                                                                                                     |
| Operational Voltage                                               | Maximum (Incl. Tolerance) 125 V DC<br>Maximum (Incl. Tolerance) 440 V AC<br>Maximum 440 V AC<br>Maximum 125 V DC<br>Minimum 12 V AC<br>Minimum 12 V DC                                                      |
| Częstotliwość znamionowa (f)                                      | 50 Hz<br>60 Hz                                                                                                                                                                                              |
| Znamionowy prąd zwarciov (I <sub>cn</sub> )                       | (400 V AC) 10 kA                                                                                                                                                                                            |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (230 V AC) 25 kA<br>(440 V AC) 15 kA                                                                                                                                                                        |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (230 V AC) 7.5 kA                                                                                                                                                                                           |
| Overvoltage Category                                              | III                                                                                                                                                                                                         |
| Stopień zanieczyszczenia                                          | 3                                                                                                                                                                                                           |
| Znamionowa wytrzymałość na impuls napięciowy (U <sub>imp</sub> )  | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m)                                                                                                                                                           |
| Dielectric Test Voltage                                           | 50/60 Hz, 1 min: 2 kV                                                                                                                                                                                       |
| Materiał obudowy                                                  | Insulation Group II, RAL 7035                                                                                                                                                                               |
| Actuator Material                                                 | Insulation Group II, Black, Sealable                                                                                                                                                                        |
| Actuator Marking                                                  | I / O                                                                                                                                                                                                       |
| Contact Position Indication                                       | Red ON / Green OFF                                                                                                                                                                                          |
| Stopień ochrony obudowy                                           | IP20                                                                                                                                                                                                        |
| Remarks                                                           | IP40 in enclosure with cover                                                                                                                                                                                |
| Electrical Endurance                                              | 20000 AC cycle<br>20000 cycle                                                                                                                                                                               |
| Typ terminala                                                     | Screw Terminals                                                                                                                                                                                             |
| Screw Terminal Type                                               | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                                              |
| Connecting Capacity                                               | Busbar 10 / 10 mm <sup>2</sup><br>Elastyczny z tulejką 0.75 ... 25 mm <sup>2</sup><br>Elastyczny 0.75 ... 25 mm <sup>2</sup><br>Szttywny 0.75 ... 35 mm <sup>2</sup><br>Skrećka 0.75 ... 35 mm <sup>2</sup> |
| Momenty dokrecające                                               | 2.8 N·m                                                                                                                                                                                                     |
| Recommended Screw Driver                                          | Pozidriv 2                                                                                                                                                                                                  |
| Montaż na szynie DIN                                              | TH35-7.5 (Szyna montażowa 35 x 7.5 mm) wg IEC 60715<br>TH35-15 (Szyna montażowa 35 x 15 mm) wg IEC 60715                                                                                                    |
| Pozycja montażu                                                   | Any                                                                                                                                                                                                         |
| Built-In Depth (t <sub>2</sub> )                                  | 69 mm                                                                                                                                                                                                       |
| Installation Size                                                 | acc. to DIN 43880 1                                                                                                                                                                                         |
| Power Supply Connection                                           | Arbitrary                                                                                                                                                                                                   |

## Normy środowiskowe

|                                      |                                                             |
|--------------------------------------|-------------------------------------------------------------|
| Temperatura powietrza otoczenia      | Eksplatacja -25 ... +55 °C<br>Przechowywanie -40 ... +70 °C |
| Reference Ambient Air Temperature    | 30 °C                                                       |
| Odporność na wstrząsy IEC 60068-2-27 | 25g / 2 shocks / 13 ms                                      |
| Odporność na wibracje IEC 60068-2-6  | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In        |
| Warunki środowiskowe                 | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %   |
| Status RoHS                          | Following EU Directive 2011/65/EU                           |

## Technical UL/CSA

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Maksymalne napięcie robocze UL/CSA | 125 V DC<br>480Y/277 V AC                                     |
| Connecting Capacity UL/CSA         | Busbar 14-8 AWG<br>Conductor 14-4 AWG                         |
| Momenty dokrecające UL/CSA         | 18 in-lb                                                      |
| Interrupting Rating acc. to UL1077 | (125 V DC) 10 kA<br>(277 V AC) 6 kA<br>(480Y / 277 V AC) 6 kA |

## Wymiary

|                          |         |
|--------------------------|---------|
| Szerokość produktu netto | 35 mm   |
| Głębokość produktu netto | 69 mm   |
| Wysokość produktu netto  | 88 mm   |
| Waga produktu netto      | 0.25 kg |

## Informacje o pakowaniu

|                                   |                  |
|-----------------------------------|------------------|
| Jednostka opakowania (poziom 1)   | carton 5 sztuka  |
| Szerokość opakowania (poziom 1)   | 92 mm            |
| Długość opakowania (poziom 1)     | 183 mm           |
| Wysokość opakowania (poziom 1)    | 80 mm            |
| Waga opakowania brutto (poziom 1) | 1.3 kg           |
| EAN opakowania (poziom 1)         | 4016779603362    |
| Jednostka opakowania (poziom 2)   | carton 60 sztuka |
| Szerokość opakowania (poziom 2)   | 275 mm           |
| Długość opakowania (poziom 2)     | 400 mm           |

|                                      |               |
|--------------------------------------|---------------|
| Wysokość opakowania<br>(poziom 2)    | 210 mm        |
| Waga opakowania brutto<br>(poziom 2) | 15.4 kg       |
| EAN opakowania (poziom<br>2)         | 4016779977180 |

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### Charakterystyka zamówienia

|                               |          |
|-------------------------------|----------|
| Minimalna ilość<br>zamówienia | 1 sztuka |
| Kod taryfy celnej             | 85362010 |
| E-Number (Sweden)             | 2100039  |

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### Certyfikaty i deklaracje (Numer dokumentu)

|                           |                 |
|---------------------------|-----------------|
| Deklaracja zgodności - CE | 2CDK403001D0607 |
| Informacje środowiskowe   | 2CDK400030D0201 |
| Instrukcje i podręczniki  | 2CDS207104P0001 |
| Dane RoHS                 | 2CDK400003K0203 |

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### Najczęściej Pobierane

|                                          |                 |
|------------------------------------------|-----------------|
| Arkusze danych, informacja<br>techniczna | 9AKK107046A0423 |
| Instrukcje i podręczniki                 | 2CDS207104P0001 |

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### 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) |
| eClass           | V11.0 : 27141901                           |
| UNSPSC           | 39121614                                   |

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### Accessories

| Identifier      | Description                            | Type          | Quantity | Unit Of Measure |
|-----------------|----------------------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | S2C-S/H6R - Signal / Auxiliary Contact | S2C-S/H6R     | 1        | piece           |
| 2CDS200912R0001 | S2C-H6R - Auxiliary Contact            | S2C-H6R       | 1        | piece           |
| 2CDS200936R0001 | S2C-H11L - Auxiliary Contact           | S2C-H11L      | 1        | piece           |
| 2CDS200936R0002 | S2C-H20L - Auxiliary Contact           | S2C-H20L      | 1        | piece           |
| 2CDS200936R0003 | S2C-H02L - Auxiliary Contact           | S2C-H02L      | 1        | piece           |
| 2CDS200946R0001 | S2C-H6-11R - Auxiliary Contact         | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R - Auxiliary Contact         | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R - Auxiliary Contact         | S2C-H6-02R    | 1        | piece           |
| 2CDS200909R0001 | S2C-A1 - Shunt Trip                    | S2C-A1        | 1        | piece           |
| 2CDS200909R0002 | S2C-A2 - Shunt Trip                    | S2C-A2        | 1        | piece           |
| 2CSS200911R0001 | S2C-UA 12 DC - Undervoltage release    | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0002 | S2C-UA 24 AC - Undervoltage release    | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | S2C-UA 48 AC - Undervoltage release    | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | S2C-UA 110 AC - Undervoltage release   | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | S2C-UA 230 AC - Undervoltage release   | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0006 | S2C-UA 400 AC - Undervoltage release   | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0007 | S2C-UA 24 DC - Undervoltage release    | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0008 | S2C-UA 48 DC - Undervoltage release    | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0009 | S2C-UA 110 DC - Undervoltage release   | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0010 | S2C-UA 230 DC - Undervoltage release   | S2C-UA 230 DC | 1        | piece           |
| 2CSS201997R0013 | S2C-CM1 - Motor operating device       | S2C-CM1       | 1        | piece           |
| 2CSS203997R0013 | S2C-CM2/3 - Motor operating device     | S2C-CM2/3     | 1        | piece           |
| 2CSS204997R0013 | S2C-CM4 - Motor operating device       | S2C-CM4       | 1        | piece           |
| GHS2001901R0003 | S2C-DH - Mechanical Accessories        | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | S2C-BP - Mechanical tripping device    | S2C-BP        | 1        | piece           |
| 2CSS200999R0001 | S2C-EST - Plug-in base                 | S2C-EST       | 1        | piece           |
| 2CDS200918R0001 | S2C-NT - Hand Operated Neutral         | S2C-NT        | 1        | piece           |
| 2CCA880100R0001 | CMS-100PS Sensor                       | CMS-100PS     | 1        | piece           |
| 2CCA880101R0001 | CMS-101PS Sensor                       | CMS-101PS     | 1        | piece           |
| 2CCA880102R0001 | CMS-102PS Sensor                       | CMS-102PS     | 1        | piece           |

## Kategorie

Produkty niskiego napięcia i systemy → Aparatura modułowa na szynę DIN → Włłączniki nadmiarowo-prądowe

