

PRODUCT-DETAILS

## S203M-Z25NA

### S203M-Z25NA Miniature Circuit Breaker - 3+NP - Z - 25 A



#### Algemene informatie

|               |   |
|---------------|---|
| Type          | S203M-Z25NA   |
| Artikelnummer | 2CDS273103R0518   |
| EAN           | 4016779601580   |
| Omschrijving  | S203M-Z25NA Miniature Circuit Breaker - 3+NP - Z - 25 A |

|              |   |
|--------------|---|
| Omschrijving | 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 609 47-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space. |
|--------------|---|

#### ABB EcoSolutions

|                  |     |
|------------------|-----|
| ABB EcoSolutions | Yes |
|------------------|-----|

#### Circular Value

|   |   |
|---|---|
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 90 % |
| Sustainable Material                          | 0 %   |

## Content

|                                |                         |
|--------------------------------|-------------------------|
| Offered with Extended Lifetime | Product Durability      |
| Offered with Takeback Services | Take Back for Recycling |

## Eco Transparency

|                               |                 |
|-------------------------------|-----------------|
| Milieuproductverklaring - EPD | 9AKK108467A7833 |
|-------------------------------|-----------------|

## Technical

|   |   |
|---|---|
| Normen  | CSA 22.2 No. 235<br>IEC/EN 60947-2<br>UL 1077                                 |
| Uitschakelkenmerk                                     | Z   |
| Nominaal bedrijfsvoltage                              | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60947-2 440 V AC                  |
| Operationeel voltage                                  | Maximum (inclusief tolerantie) 440 V AC<br>Minimum 12 V AC<br>Minimum 12 V DC |
| Nominaal isolatievoltage ( $U_i$ )                    | acc. to IEC/EN 60664-1 440 V  |
| Nominale impuls grensvoltage ( $U_{imp}$ )            | 4 kV<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV                                 |
| Diëlektrische testspanning                            | 50/60 Hz, 1 min: 2 kV   |
| Ingangsspanningstype                                  | AC  |
| Toegekende stroom ( $I_n$ )                           | 25 A  |
| Nominaal kortsluitvermogen                            | (AC) 10 kA<br>(DC) 10 kA<br>(230 V AC) 10 kA<br>(400 V AC) 10 kA              |
| Nominaal ultiem kortsluitvermogen ( $I_{cu}$ )        | (230 V AC) 25 kA<br>(400 V AC) 15 kA<br>(440 V AC) 15 kA                      |
| Nominale voorwaardelijke kortsluitstroom ( $I_{nc}$ ) | (230 V) 25 kA<br>(400 V) 15 kA  |
| Nominaal vermogen kortsluitvermogen ( $I_{cs}$ )      | (230 V AC) 7.5 kA   |
| Toegekende frequentie (f)                             | 50 / 60 Hz  |
| Vermogensverlies                                      | 13.2 W<br>at Rated Operating Conditions per Pole 3.3 W                        |
| Aansluiting voeding                                   | Arbitrary   |
| Statusindicator                                       | Red ON / Green OFF  |
| Energiebeperkende klasse                              | 3   |
| Mechanisch uithoudingsvermogen                        | 20000 cycle   |
| Aantal polen  | 3+N   |
| Aantal beveiligde polen                               | 3   |
| Overspanningscategorie                                | III   |
| Positie van neutrale klemmen                          | Right   |
| Aanhaalmoment   | 2.8 N·m   |
| Type schroefklem                                      | Failsafe Bi-directional Cylinder-lift Terminal                                |
| Aansturingsmarkering                                  | I / O   |

|                             |  |
|-----------------------------|--|
| Aansturingsmateriaal        | Insulation Group II, Black, Sealable   |
| Materiaal behuizing         | Insulation Group II, RAL 7035  |
| Montage op 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   |
| Plaats van inbouw           | any  |
| Aanbevolen schroevendraaier | Pozidriv 2   |
| Accessoires beschikbaar     | Yes  |
| Verbindingscapaciteit       | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup><br>Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup><br>Stranded 0.75 ... 35 mm <sup>2</sup> |
| Installatiegrootte          | acc. to DIN 43880 1  |
| Terminaltype                | Schroef  |

## Environmental

|  |  |
|--|--|
| Omgevingsluchttemperatuur                        | Werking -25 ... +55 °C<br>Opslag -40 ... +70 °C                        |
| Referentie omgevingsluchttemperatuur             | 30 °C  |
| Beschermingsgraad                                | IP20<br>Enclosure with Cover IP40                                      |
| Verontreinigingsgraad                            | 3  |
| Milieu-omstandigheden                            | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %              |
| Weerstand tegen trillingen volgens IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In                   |
| Schokweerstand volgens IEC 60068-2-27            | 25g 2 shocks 13 ms   |
| RoHS-status                                      | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS-informatie                                  | 2CDK400003K0203  |
| REACH-verklaring                                 | 9AKK107492A1906  |

## Technical UL/CSA

|  |   |
|--|---|
| Maximale bedrijfsspanning UL/CSA           | 125 V DC<br>480Y / 277 V AC                                   |
| Onderbrekende classificatie volgens UL1077 | (125 V DC) 10 kA<br>(277 V AC) 6 kA<br>(480Y / 277 V AC) 6 kA |
| Verbindingscapaciteit UL/CSA               | Busbar 14-8 AWG<br>Conductor 14-4 AWG                         |
| Aanhaalmoment UL/CSA                       | 18 in-lb  |

## Dimensions

|                            |          |
|----------------------------|----------|
| Breedte in module-eenheden | 4        |
| Product netto breedte      | 70 mm    |
| Product netto hoogte       | 88 mm    |
| Product netto diepte       | 69 mm    |
| Product netto gewicht      | 0.5 kg   |
| Pool netto gewicht         | 0.125 kg |

|                                |                 |
|--------------------------------|-----------------|
| Inbouwdiepte (t <sub>2</sub> ) | 69 mm           |
| Dimensiediagram                | 2CDC022007F0010 |

## Ordering

|                            |               |
|----------------------------|---------------|
| Minimale bestelhoeveelheid | 1 stuk        |
| Pakketniveau 1 Units       | karton 1 stuk |
| Pakketniveau 1 Brutoweight | 0.53 kg       |

## Certificates and Declarations

|                                  |                        |
|----------------------------------|------------------------|
| Certificatieagentschap           | CSA<br>EN<br>IEC<br>UL |
| Conformiteitsverklaring - CE     | 2CDK403001D0607        |
| Declaration of Conformity - UKCA | 9AKK108467A5053        |
| I <sup>2</sup> t Characteristic  | 9AKK107992A5104        |

## Installation

|                              |                 |
|------------------------------|-----------------|
| Instructies en handleidingen | 2CDS207104P0002 |
|------------------------------|-----------------|

## Popular Downloads

|                                     |                 |
|-------------------------------------|-----------------|
| Gegevensblad, technische informatie | 9AKK107046A0423 |
| I <sup>2</sup> t Characteristic     | 9AKK107992A5104 |
| EPLAN grafische macro               | 9AKK106713A7632 |
| EPLAN-macro                         | 9AKK106713A7622 |

## Classifications

|                                      |  |
|--------------------------------------|--|
| ETIM 8                               | EC000042 - Installatieautomaat   |
| ETIM 9                               | EC000042 - Installatieautomaat   |
| EPLAN-functiedefinitie               | NO contact / NO contact, 2 connection points / NO contact, leading<br>7N_8N<br>Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6 |
| WEEE-categorie                       | 5. Small Equipment (No External Dimension More Than 50 cm)   |
| AEEA B2C / B2B                       | Business To Business   |
| CN8                                  | 8536 20 10   |
| UNSPSC                               | 39121603   |
| eClass                               | V11.0 : 27141901   |
| IGCC (IDEA granulaire categoriecode) | 4897 >> Miniature circuit breakers   |
| Object classificatiecode             | F  |

## 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           |

## Categorieën

Laagspanningsproducten en -systemen → Modulaire DIN rail producten → Miniature Circuit Breakers MCBs → Installatieautomaten MCB's

