

## PRODUCT-DETAILS

# S201MT-K20NA

## Miniature Circuit Breaker - S200MT - 1+NP - K - 20 ampere



### Ogólne informacje

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Extended Product Type | S201MT-K20NA                                              |
| ID Produktu           | 2CDS271106R0487                                           |
| Numer EAN             | 4016779767279                                             |
| Opis katalogowy       | Miniature Circuit Breaker - S200MT - 1+NP - K - 20 ampere |

### Opis

S200MT miniature circuit breakers are designed especially for traction and railway applications. Acc. NF F 16-101/102 the product range S200MT is classified with Exigence 3, enabling the use in all parts of the vehicle. They are current limiting and 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 (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 S200MT comply with IEC/EN 60898-1 and IEC/EN 609 47-2. All system protection compact accessories can be used. Including the bottom-fitting auxiliary contact S2C-Hxx providing the possibility of 50% space saving and the creation of group signals.

### Dane techniczne

|                           |                |
|---------------------------|----------------|
| Standardy                 | IEC/EN 60947-2 |
| Liczba biegunów           | 1+N            |
| Number of Protected Poles | 1              |
| Tripping Characteristic   | K              |
|                           | 20 A           |

Prąd znamionowy ( $I_n$ )

|                           |                              |
|---------------------------|------------------------------|
| Znamionowe napięcie pracy | zgodny z IEC60947-2 230 V AC |
|---------------------------|------------------------------|

|             |                          |
|-------------|--------------------------|
| Straty mocy | 5.8 W<br>na biegun 2.9 W |
|-------------|--------------------------|

|                                        |                         |
|----------------------------------------|-------------------------|
| Znamionowe napięcie izolacji ( $U_i$ ) | wg IEC/EN 60664-1 440 V |
|----------------------------------------|-------------------------|

|                              |                |
|------------------------------|----------------|
| Częstotliwość znamionowa (f) | 50 Hz<br>60 Hz |
|------------------------------|----------------|

|                                                             |                  |
|-------------------------------------------------------------|------------------|
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (230 V AC) 15 kA |
|-------------------------------------------------------------|------------------|

|                                                            |                    |
|------------------------------------------------------------|--------------------|
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ ) | (230 V AC) 11.3 kA |
|------------------------------------------------------------|--------------------|

|                      |     |
|----------------------|-----|
| Overvoltage Category | III |
|----------------------|-----|

|                          |   |
|--------------------------|---|
| Stopień zanieczyszczenia | 3 |
|--------------------------|---|

|                                                            |                                                   |
|------------------------------------------------------------|---------------------------------------------------|
| Znamionowa wytrzymałość na impuls napięciowy ( $U_{imp}$ ) | (5.0 kV @ 2000 m)<br>(6.2 kV @ sea level)<br>4 kV |
|------------------------------------------------------------|---------------------------------------------------|

|                  |                              |
|------------------|------------------------------|
| Materiał obudowy | Insulation Group I, RAL 7035 |
|------------------|------------------------------|

|                   |                                      |
|-------------------|--------------------------------------|
| Actuator Material | Insulation Group II, Black, Sealable |
|-------------------|--------------------------------------|

|                  |       |
|------------------|-------|
| Actuator Marking | I / O |
|------------------|-------|

|                         |      |
|-------------------------|------|
| Stopień ochrony obudowy | IP20 |
|-------------------------|------|

|         |                                             |
|---------|---------------------------------------------|
| Remarks | IP40 in enclosure with cover<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 ... 16 mm <sup>2</sup><br>Elastyczny 0.75 ... 16 mm <sup>2</sup><br>Szttywny 0.75 ... 25 mm <sup>2</sup><br>Skrećka 0.75 ... 25 mm <sup>2</sup> |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                     |         |
|---------------------|---------|
| Momenty dokrecajace | 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 ( $t_2$ ) | 69 mm |
|--------------------------|-------|

|                   |                     |
|-------------------|---------------------|
| Installation Size | acc. to DIN 43880 1 |
|-------------------|---------------------|

|                               |       |
|-------------------------------|-------|
| Position of Neutral Terminals | Right |
|-------------------------------|-------|

|                         |           |
|-------------------------|-----------|
| Power Supply Connection | Arbitrary |
|-------------------------|-----------|

## Normy środowiskowe

|                                 |                                                             |
|---------------------------------|-------------------------------------------------------------|
| Temperatura powietrza otoczenia | Eksplotacja -25 ... +55 °C<br>Przechowywanie -40 ... +70 °C |
|---------------------------------|-------------------------------------------------------------|

|                                      |                        |
|--------------------------------------|------------------------|
| Odporność na wstrząsy IEC 60068-2-27 | 30g / 3 shocks / 11 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  
with 55 °C / 90-96 %  
and 25 °C / 95-100 %

Status RoHS

Following EU Directive 2011/65/EU

## 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<br>(poziom 1)   | carton 5 sztuka |
| Szerokość opakowania<br>(poziom 1)   | 92 mm           |
| Długość opakowania<br>(poziom 1)     | 183 mm          |
| Wysokość opakowania<br>(poziom 1)    | 80 mm           |
| Waga opakowania brutto<br>(poziom 1) | 1.3 kg          |
| EAN opakowania (poziom<br>1)         | 4016779827683   |

## Charakterystyka zamówienia

|                               |          |
|-------------------------------|----------|
| Minimalna ilość<br>zamówienia | 1 sztuka |
| Kod taryfy celnej             | 85362010 |

## Certyfikaty i deklaracje (Numer dokumentu)

|                           |                 |
|---------------------------|-----------------|
| Deklaracja zgodności - CE | 2CDK400594D2704 |
| Informacje środowiskowe   | 9AKK107680A6947 |
| Instrukcje i podręczniki  | 2CDS207104P0001 |
| Dane RoHS                 | 2cdk400594d2703 |

## Najczęściej Pobierane

|                                          |                 |
|------------------------------------------|-----------------|
| Arkusze danych, informacja<br>techniczna | 2CDC002053D0204 |
| Instrukcje i podręczniki                 | 2CDS207104P0001 |

## 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                                   |

## Accessories

| Identifier      | Description                                                                                                    | Type          | Quantity | Unit Of Measure |
|-----------------|----------------------------------------------------------------------------------------------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | S2C-S/H6R - Signalkontakt / Hilfsschalter                                                                      | S2C-S/H6R     | 1        | piece           |
| 2CDS200912R0001 | S2C-H6R - Hilfskontakt                                                                                         | S2C-H6R       | 1        | piece           |
| 2CDS200936R0001 | S2C-H11L - Hilfskontakt                                                                                        | S2C-H11L      | 1        | piece           |
| 2CDS200936R0002 | S2C-H20L - Hilfskontakt                                                                                        | S2C-H20L      | 1        | piece           |
| 2CDS200936R0003 | S2C-H02L - Hilfskontakt                                                                                        | S2C-H02L      | 1        | piece           |
| 2CDS200946R0001 | S2C-H6-11R - Hilfskontakt                                                                                      | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R - Hilfskontakt                                                                                      | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R - Hilfskontakt                                                                                      | S2C-H6-02R    | 1        | piece           |
| 2CDS200909R0001 | S2C-A1 - Arbeitsstromauslöser                                                                                  | S2C-A1        | 1        | piece           |
| 2CDS200909R0002 | S2C-A2 - Arbeitsstromauslöser                                                                                  | S2C-A2        | 1        | piece           |
| 2CSS200911R0001 | S2C-UA 12 DC - Unterspannungsauslöser                                                                          | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0002 | S2C-UA 24 AC - Unterspannungsauslöser                                                                          | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | S2C-UA 48 AC - Unterspannungsauslöser                                                                          | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | S2C-UA 110 AC - Unterspannungsauslöser                                                                         | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | S2C-UA 230 AC - Unterspannungsauslöser                                                                         | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0006 | S2C-UA 400 AC - Unterspannungsauslöser                                                                         | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0007 | S2C-UA 24 DC - Unterspannungsauslöser                                                                          | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0008 | S2C-UA 48 DC - Unterspannungsauslöser                                                                          | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0009 | S2C-UA 110 DC - Unterspannungsauslöser                                                                         | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0010 | S2C-UA 230 DC - Unterspannungsauslöser                                                                         | S2C-UA 230 DC | 1        | piece           |
| 2CSS201997R0013 | S2C-CM1 - Motorantrieb                                                                                         | S2C-CM1       | 1        | piece           |
| 2CSS203997R0013 | S2C-CM2/3 - Motorantrieb                                                                                       | S2C-CM2/3     | 1        | piece           |
| 2CSS204997R0013 | S2C-CM4 - Motorantrieb                                                                                         | S2C-CM4       | 1        | piece           |
| GHS2001901R0003 | S2C-DH - Drehantrieb                                                                                           | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | S2C-BP - Mechanischer Auslöser                                                                                 | S2C-BP        | 1        | piece           |
| 2CSS200999R0001 | S2C-EST - Stecksockel                                                                                          | S2C-EST       | 1        | piece           |
| 2CDS200918R0001 | S2C-NT - Neutralleiter                                                                                         | S2C-NT        | 1        | piece           |
| 2CCA880100R0001 | CMS-100PS Strom-Messsystem Sensor 80A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt | CMS-100PS     | 1        | piece           |
| 2CCA880101R0001 | CMS-101PS Strom-Messsystem Sensor 40A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt | CMS-101PS     | 1        | piece           |
| 2CCA880102R0001 | CMS-102PS Strom-Messsystem Sensor 20A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt | CMS-102PS     | 1        | piece           |

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## Kategorie

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

