

PRODUCT-DETAILS

# S301P-Z20

## S301P-Z20 Miniature Circuit Breaker - 1P - Z - 20 A



### Informations générales

|                              |   |
|------------------------------|---|
| Extension du type de produit | S301P-Z20   |
| Code de produit              | 2CDS381001R0488   |
| EAN                          | 4016779080095   |
| Description courte           | S301P-Z20 Miniature Circuit Breaker - 1P - Z - 20 A   |
| Description longue           | The MCBs S300P series assures protection in industrial installations against overload and short circuits. This product is manufactured according to international IEC and UL standards, for the markets where it is required. |

### ABB EcoSolutions

|                  |     |
|------------------|-----|
| ABB EcoSolutions | Oui |
|------------------|-----|

### Valeur Circulaire

|  |  |
|--|--|
| Principes du Design Circulaire - Taux de Recyclabilité | Conçu pour utiliser des ressources recyclables et réutilisables - Norme EN45555 - 63.8 % |
| Matériau Durable Constitutif                           | 0 %  |
| Déchets destinés à                                     | Aucun déchet non-dangereux mis en décharge -   |

l'enfouissement en  
décharge - Destination

Amélioration de l'efficacité  
des ressources pour les  
clients

Efficacité du produit - Le produit nécessite moins d'énergie pour fonctionner par  
rapport à un produit similaire sur le marché. -

Proposé avec une durée  
de vie prolongée

Durabilité du produit -

Proposition de reprise

Reprendre pour recycler -

Instructions relatives à la  
fin de vie

9AKK108467A9801

## Eco Transparence

Environmental Product  
Declaration - EPD

9AKK108467A7130

## Technique

Normes et standards

CSA 22.2 No. 235  
IEC/EN 60947-2  
UL 1077

Tripping Characteristic

Z

Tension

acc. to IEC 60898-1 240 V AC  
acc. to IEC 60898-1 240 V  
acc. to IEC 60947-2 240 V AC

Operational Voltage

Maximum (Incl. Tolerance) 254 V AC  
Maximum 254 V AC  
Minimum 12 V AC  
Minimum 12 V DC

Tension assignée d'  
isolement ( $U_i$ )

acc. to IEC/EN 60664-1 500 V

Tension assignée de  
tenue aux chocs ( $U_{imp}$ )

6 kV

Dielectric Test Voltage

50/60 Hz, 1 min: 2 kV

Type de tension

AC/DC

Courant nominal ( $I_n$ )

20 A

Pouvoir assigné de  
coupure ultime en court-  
circuit ( $I_{cu}$ )

(240 V AC) 25 kA  
(72 V DC) 25 kA  
(230 V) 25 kA

Pouvoir assigné de  
coupure de service en  
court-circuit ( $I_{cs}$ )

(240 V AC) 12.5 kA

Fréquence assignée (f)

50 Hz  
60 Hz  
50 ... 60 Hz

Power Loss

2.5 W  
at Rated Operating Conditions per Pole 2.5 W

Power Supply Connection

Arbitrary

Contact Position  
Indication

Red ON / Green OFF

Electrical Endurance

20000 AC cycle

Mechanical Endurance

20000 cycle

Number of Protected

1

## Poles

|                          |  |
|--------------------------|--|
| Nombre de pôles          | 1  |
| Catégorie de Surtension  | IV   |
| Couple de serrage        | 2.8 N·m  |
| Screw Terminal Type      | Failsafe Bi-directional Cylinder-lift Terminal   |
| Actuator Marking         | I / O  |
| Actuator Material        | Insulation Group II, Black, Sealable   |
| Qualité du matériau      | Insulation Group I, RAL 7035   |
| Montage sur rail DIN     | 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  |
| Connecting Capacity      | 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>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> |
| Installation Size        | acc. to DIN 43880 1  |
| Wire Stripping Length    | 14 mm  |
| Type de borne            | Screw Terminals  |

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**Environnement**


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|  |   |
|--|---|
| Température de l'air ambiant                   | Operation -40 ... +70 °C<br>Storage -55 ... +70 °C        |
| Indice de protection                           | IP20<br>IP40<br>Enclosure with Cover IP40                 |
| Degré de pollution                             | 3   |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In      |
| Résistance aux chocs selon CEI 60068-2-27      | 25g 3 shocks 18 ms  |
| Statut RoHS                                    | Following EU Directive 2011/65/EU                         |
| Informations RoHS                              | 9AKK107991A3220   |
| REACH Declaration                              | 9AKK107492A1906   |
| Conflict Minerals Reporting Template (CMRT)    | 9AKK108468A3363   |

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**Technique UL/CSA**


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|                                    |                                     |
|------------------------------------|-------------------------------------|
| Maximum Operating Voltage UL/CSA   | 480Y / 277 V AC<br>480Y/277 V AC    |
| Interrupting Rating acc. to UL1077 | (277 V AC) 10 kA<br>(60 V DC) 10 kA |

|                               |                                       |
|-------------------------------|---------------------------------------|
| Connecting Capacity<br>UL/CSA | Busbar 18-8 AWG<br>Conductor 18-4 AWG |
| Tightening Torque<br>UL/CSA   | 18 in-lb                              |

## Dimensions

|  |          |
|--|----------|
| Width in Number of<br>Modular Spacings         | 1        |
| Produit Largeur Net                            | 17.5 mm  |
| Produit Hauteur Net                            | 88 mm    |
| Produit Longueur Net                           | 67.6 mm  |
| Poids net                                      | 0.124 kg |
| Pole Net Weight                                | 0.124 kg |
| Profondeur<br>d'encastrement (t <sub>2</sub> ) | 69 mm    |

## Commande

|                              |              |
|------------------------------|--------------|
| Emballage Niveau 1<br>Unités | box 10 pièce |
| Emballage Niveau 1 Poids     | 1.29 kg      |
| E-Number (Finland)           | 3212488      |

## Certificats et Déclarations (Numéro de document)

|                                     |                                    |
|-------------------------------------|------------------------------------|
| CB Certificate                      | 2CDZ405000A1089<br>2CDZ405000A1093 |
| CCA Certificate                     | 2CDZ405000A1090<br>2CDZ405000A1094 |
| CCC Certificate                     | 2CDZ405000A1097<br>2CDZ405000A1098 |
| Agence de certification             | CSA<br>IEC<br>EN<br>UL             |
| CQC Certificate                     | 2CDZ405000A1097<br>2CDZ405000A1098 |
| Certificat CSA                      | 2CDZ405000A1102                    |
| Déclaration de Conformité<br>- CE   | 9AKK107991A3220                    |
| Declaration of Conformity<br>- UKCA | 9AKK107992A8877                    |
| DNV GL Certificate                  | 2CDZ405000A1155                    |
| EAC Certificate                     | 2CDZ405000A1092<br>2CDZ405000A1096 |
| Certificat NF                       | 2CDZ405000A1144                    |
| Certificat RINA                     | 2CDZ405000A1194                    |
| Certificat UL                       | 2CDZ405000A1101                    |
| VDE Certificate                     | 2CDZ405000A1191<br>2CDZ405000A1195 |

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## Installation

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Instructions et manuels

2CDS207104P0002

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## Downloads Préférés

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Fiche produit, informations  
techniques

9AKK107992A4964

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## Classifications

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|   |  |
|---|--|
| ETIM 8                                      | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                                      | EC000042 - Miniature circuit breaker (MCB)                 |
| Catégorie DEEE                              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                              | Business To Business                                       |
| CN8   | 8536 20 10   |
| UNSPSC                                      | 39121603   |
| eClass                                      | V11.0 : 27141901   |
| Code de catégorie<br>granulaire IDEA (IGCC) | 4897 >> Miniature circuit breakers                         |
| Code de classification<br>d'objet           | F  |

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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           |
| 2CDS200970R0001 | S2C-H01 Auxiliary Contact            | S2C-H01       | 1        | piece           |
| 2CDS200970R0002 | S2C-H10 Auxiliary Contact            | S2C-H10       | 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           |

## Catégories

Produits basse tension → Appareillage modulaire et parafoudres → Miniature Circuit Breakers MCBs → Disjoncteurs ≤63A SN201/S200

