

## Printed-circuit board connector - ICC 2,5/19-STZFD-5,08 - 1823781

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The figure shows an 10-position version

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding male crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

### Your advantages

- ✓ Inexpensive connection of large quantities of pre-assembled conductors
- ✓ Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- ✓ Screwable flange for superior mechanical stability
- ✓ Can be combined with the MSTB 2,5 range



### Key Commercial Data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1                                                                                                       |
| GTIN                 | <br>4 017918 048648 |
| GTIN                 | 4017918048648                                                                                           |
| Custom tariff number | 85472000                                                                                                |

### Technical data

#### Item properties

|                           |                                 |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system            | CLASSIC COMBICON                |
| Type of contact           | Male connector                  |
| Range of articles         | ICC 2,5/...-STZFD               |
| Pitch                     | 5.08 mm                         |
| Number of positions       | 19                              |
| Connection method         | Crimp connection                |

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## Technical data

### Item properties

|                       |              |
|-----------------------|--------------|
| Locking               | Screw flange |
| Number of levels      | 1            |
| Number of connections | 19           |
| Number of potentials  | 19           |

### Electrical parameters

|                             |       |
|-----------------------------|-------|
| Nominal current             | 12 A  |
| Nom. voltage                | 320 V |
| Rated voltage               | 250 V |
| Rated voltage (III/2)       | 320 V |
| Rated voltage (II/2)        | 630 V |
| Rated surge voltage (III/3) | 4 kV  |
| Rated surge voltage (III/2) | 4 kV  |
| Rated surge voltage (II/2)  | 4 kV  |

### Connection capacity

|                                     |                     |
|-------------------------------------|---------------------|
| Connection method                   | Crimp connection    |
| pluggable                           | Yes                 |
| Conductor cross section flexible    | 0.5 mm² ... 2.5 mm² |
| Conductor cross section AWG / kcmil | 20 ... 14           |

### Material data - contact

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Note             | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Cu alloy                                                                          |

### Material data - housing

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Insulating material                                               | PA     |
| Insulating material group                                         | I      |
| CTI according to IEC 60112                                        | 600    |
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

### Dimensions for the product

|              |           |
|--------------|-----------|
| Length [ l ] | 28.1 mm   |
| Width [ w ]  | 105.43 mm |
| Height [ h ] | 10.6 mm   |
| Pitch        | 5.08 mm   |

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## Technical data

### Dimensions for the product

|                             |         |
|-----------------------------|---------|
| Height (without solder pin) | 10.6 mm |
|-----------------------------|---------|

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002637 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |
| UNSPSC 18.0   | 39121409 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 19.0 | 39121409 |
| UNSPSC 20.0 | 39121409 |
| UNSPSC 21.0 | 39121409 |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / IECCE CB Scheme / EAC / VDE Zeichengenehmigung / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | D                                                                                                                                       |       |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                   |       |
| Nominal current IN | 10 A                                                                                | 10 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 20-14                                                                               | 20-14                                                                                                                                   |       |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                   | D                                                                                                                                                     |              |
| Nominal voltage UN | 250 V                                                                               | 300 V                                                                                                                                                 |              |
| Nominal current IN | 10 A                                                                                | 10 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-14                                                                               | 20-14                                                                                                                                                 |              |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                   | D                                                                                                                                                     |              |
| Nominal voltage UN | 250 V                                                                               | 300 V                                                                                                                                                 |              |

## Printed-circuit board connector - ICC 2,5/19-STZFD-5,08 - 1823781

### Approvals

|                                | B     | D     |
|--------------------------------|-------|-------|
| Nominal current I <sub>N</sub> | 10 A  | 10 A  |
| mm <sup>2</sup> /AWG/kcmil     | 20-14 | 20-14 |

|                                |                     |                                                           |                |
|--------------------------------|---------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme                | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60988-B1B2 |
| Nominal voltage U <sub>N</sub> | 250 V               |                                                           |                |
| Nominal current I <sub>N</sub> | 10 A                |                                                           |                |
| mm <sup>2</sup> /AWG/kcmil     | 0.5-1               |                                                           |                |

|     |            |         |
|-----|------------|---------|
| EAC | <b>EAC</b> | B.01687 |
|-----|------------|---------|

|                                |                                                                                     |                                                                                                                                                                                                           |          |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung         |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40050648 |
| Nominal voltage U <sub>N</sub> | 250 V                                                                               |                                                                                                                                                                                                           |          |
| Nominal current I <sub>N</sub> | 10 A                                                                                |                                                                                                                                                                                                           |          |
| mm <sup>2</sup> /AWG/kcmil     | 0.5-1                                                                               |                                                                                                                                                                                                           |          |

|                  |              |
|------------------|--------------|
| cULus Recognized | <b>cULus</b> |
|------------------|--------------|

### Accessories

#### Accessories

#### Crimp contact

Accessories - ICC-MT 0,5-1,0 - 3190577



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>

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### Accessories

Male insert - ICC-MT 0,5-1,0 BA - 3190603



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>, ribbon contact

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Accessories - ICC-MT 1,5-2,5 - 3190580



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>

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Accessories - ICC-MT 1,5-2,5 BA - 3190593



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>, ribbon contact

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### Crimping tool

Crimping pliers - CRIMPFOX MT 2,5 - 1204038



Crimping pliers, for crimping conductors to the module female contacts STG-MTN, crimp range: 0.5-2.5 mm<sup>2</sup>, AWG: 20-14

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### Labeled terminal marker

Marker card - SK 5,08/2,8:FORTL.ZAHLEN - 0804280



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 2.8 mm

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## Accessories

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### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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### Strain relief

Strain relief - STZ 2-MSTBC-5,08 - 1810529



Strain relief for snapping into the latching chambers of the plug components, 2-pos., labeling with ZB 6

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Strain relief - STZ 4-MSTBC-5,08 - 1810532



Strain relief for snapping into the latching chambers of the plug components, 4-pos., labeling with ZB 6

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Strain relief - STZ 8-MSTBC-5,08 - 1810516



Strain relief for snapping into the latching chambers of the plug components, 8-pos., labeling with ZB 6

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## Printed-circuit board connector - ICC 2,5/19-STZFD-5,08 - 1823781

### Accessories

Strain relief - STZ 12-MSTBC-5,08 - 1810503



Strain relief for snapping into the latching chambers of the plug components, 12-pos., labeling with ZB 6

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### Additional products

Printed-circuit board connector - MVSTBR 2,5/19-STF-5,08 - 1835261



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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Printed-circuit board connector - MVSTBW 2,5/19-STF-5,08 - 1835070



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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Printed-circuit board connector - FRONT-MSTB 2,5/19-STF-5,08 - 1777963



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Front screw connection, color: green, contact surface: Tin

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Printed-circuit board connector - MSTBC 2,5/19-STZF-5,08 - 1809909



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

## Printed-circuit board connector - ICC 2,5/19-STZFD-5,08 - 1823781

### Accessories

Printed-circuit board connector - MSTB 2,5/19-STF-5,08 - 1778153



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 19, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin