

## Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

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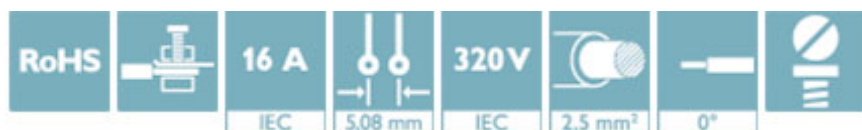
Plug component, nominal current: 16 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Integrated double steel spring provides additional safety in the event of temperature and power fluctuations



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| Minimum order quantity               | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 191122 |
| GTIN                                 | 4017918191122                                                                                           |
| Weight per Piece (excluding packing) | 5.170 g                                                                                                 |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 18.2 mm  |
| Width [ w ]  | 15.24 mm |
| Height [ h ] | 15 mm    |
| Pitch        | 5.08 mm  |
| Dimension a  | 10.16 mm |

#### General

|                   |                    |
|-------------------|--------------------|
| Range of articles | MSTB 2,5 HC/...-ST |
|-------------------|--------------------|

# Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

## Technical data

### General

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Type of contact                        | Female connector                     |
| Number of positions                    | 3                                    |
| Connection method                      | Screw connection with tension sleeve |
| Insulating material group              | I                                    |
| Rated surge voltage (III/3)            | 4 kV                                 |
| Rated surge voltage (III/2)            | 4 kV                                 |
| Rated surge voltage (II/2)             | 4 kV                                 |
| Rated voltage (III/3)                  | 250 V                                |
| Rated voltage (III/2)                  | 320 V                                |
| Rated voltage (II/2)                   | 630 V                                |
| Connection in acc. with standard       | EN-VDE                               |
| Nominal current $I_N$                  | 16 A (see derating curve)            |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                  |
| Maximum load current                   | 16 A                                 |
| Insulating material                    | PA                                   |
| Flammability rating according to UL 94 | V0                                   |
| Internal cylindrical gage              | A3                                   |
| Stripping length                       | 7 mm                                 |
| Screw thread                           | M3                                   |
| Tightening torque, min                 | 0.5 Nm                               |
| Tightening torque max                  | 0.6 Nm                               |

### Connection data

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                    | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                                    | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                                 | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                                 | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.            | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.            | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.               | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.               | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                                      | 24                   |
| Conductor cross section AWG max.                                                      | 12                   |
| 2 conductors with same cross section, solid min.                                      | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                                      | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded min.                                   | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                   | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 1 mm <sup>2</sup>    |

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### Technical data

#### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Minimum AWG according to UL/CUL                                                         | 30                  |
| Maximum AWG according to UL/CUL                                                         | 12                  |

#### Standards and Regulations

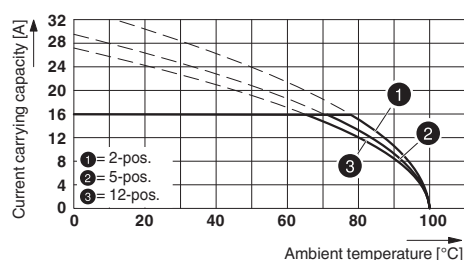
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

#### Environmental Product Compliance

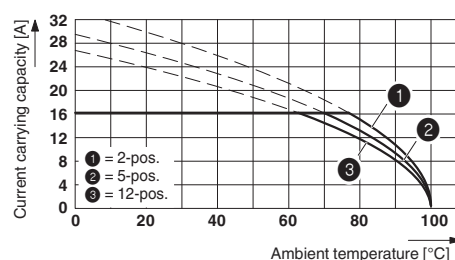
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

Diagram



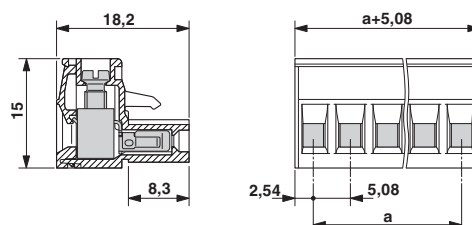
Diagram



Derating curve for: MSTB 2,5 HC/...-ST with MSTBVA 2,5 HC/...-G

Derating curve for: MSTB 2,5 HC/...-ST with MSTBA 2,5 HC/...-G

#### Dimensional drawing



### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
|------------|----------|

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

#### ETIM

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

#### UNSPSC

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

### Approvals

#### Approvals

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VDE Gutachten mit Fertigungsüberwachung / IECEx CB Scheme / cULus Recognized / EAC

#### Ex Approvals

#### Approval details

|                                            |                                                                                     |                                                                                                                                                                                                              |          |
|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40004701 |
| mm²/AWG/kcmil                              | 0.2-2.5                                                                             |                                                                                                                                                                                                              |          |
| Nominal current I <sub>N</sub>             | 16 A                                                                                |                                                                                                                                                                                                              |          |
| Nominal voltage U <sub>N</sub>             | 250 V                                                                               |                                                                                                                                                                                                              |          |

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### Approvals

|                                |                     |                                                           |                |
|--------------------------------|---------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme                | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58978-B1B2 |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-2.5             |                                                           |                |
| Nominal current I <sub>N</sub> | 16 A                |                                                           |                |
| Nominal voltage U <sub>N</sub> | 250 V               |                                                           |                |

|                                |              |                                                                                                                                                       |                 |
|--------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized               | <b>cULus</b> | <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> | E60425-19931011 |
|                                | B            | D                                                                                                                                                     |                 |
| mm <sup>2</sup> /AWG/kcmil     | 30-12        | 30-12                                                                                                                                                 |                 |
| Nominal current I <sub>N</sub> | 16 A         | 10 A                                                                                                                                                  |                 |
| Nominal voltage U <sub>N</sub> | 300 V        | 300 V                                                                                                                                                 |                 |

|     |            |         |
|-----|------------|---------|
| EAC | <b>EAC</b> | B.01742 |
|-----|------------|---------|

### Accessories

#### Accessories

#### Bridge

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

#### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

#### Labeled terminal marker

## Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

### Accessories

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



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: 5.08 x 3.8 mm

Marker card - SK 3,8 REEL P5,08 WH CUS - 0825125



Marker card, can be ordered: By card, white, labeled according to customer specifications, Mounting type: adhesive, for terminal block width: 5.08 mm, Lettering field: continuous x 3.8 mm

### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, Mounting type: adhesive, for terminal block width: 210 mm, Lettering field: 186 x 3.8 mm

Marker strip - SK 3,8 WH:REEL - 0805218



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: adhesive, for terminal block width: 90000 mm, Lettering field: continuous x 3.8 mm

### Additional products

## Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

### Accessories

Base strip - MSTBA 2,5 HC/ 3-G-5,08 - 1923872

Header, nominal current: 16 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



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Base strip - MSTBVA 2,5 HC/ 3-G-5,08 - 1924318

Header, nominal current: 16 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

