

## Printed-circuit board connector - MVSTBR 2,5 HC/ 3-ST - 1912304

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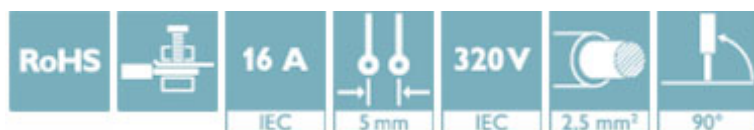


Plug component, nominal current: 16 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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                                                                                                  |
| GTIN         | <br>4 017918 192488 |
| GTIN         | 4017918192488                                                                                           |

### Technical data

#### Dimensions

|              |         |
|--------------|---------|
| Length [ l ] | 12.6 mm |
| Width [ w ]  | 15 mm   |
| Height [ h ] | 26 mm   |
| Pitch        | 5 mm    |
| Dimension a  | 10 mm   |

#### General

|                           |                                      |
|---------------------------|--------------------------------------|
| Range of articles         | MVSTBR 2,5 HC/...-ST                 |
| Type of contact           | Female connector                     |
| Number of positions       | 3                                    |
| Connection method         | Screw connection with tension sleeve |
| Insulating material group | I                                    |

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## Technical data

### General

|                                        |                           |
|----------------------------------------|---------------------------|
| 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>    |
| 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                   |

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Technical data

Connection data

|                                 |    |
|---------------------------------|----|
| Maximum AWG according to UL/CUL | 12 |
|---------------------------------|----|

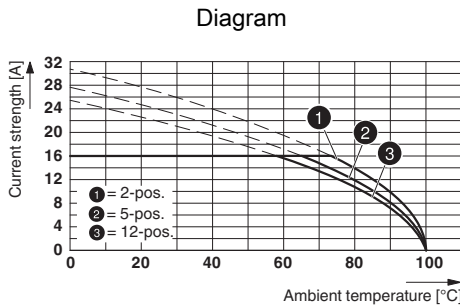
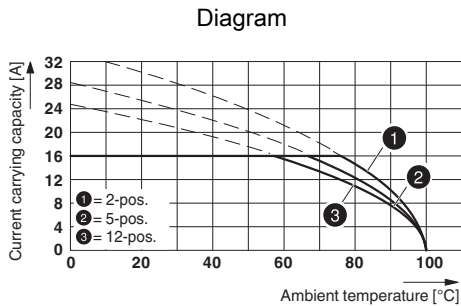
Standards and Regulations

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

Environmental Product Compliance

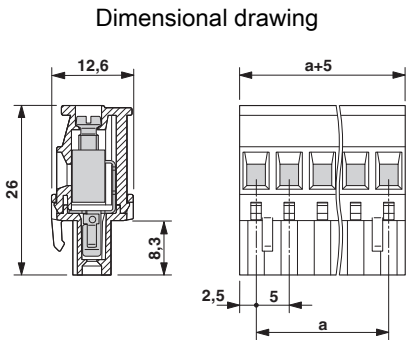
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50           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

Drawings



Type: MVSTBR 2,5 HC/...-ST with MSTBVA 2,5 HC/...-G

Type: MVSTBR 2,5 HC/...-ST with MSTBA 2,5 HC/...-G



Approvals

Approvals

Approvals

VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized / EAC

# Printed-circuit board connector - MVSTBR 2,5 HC/ 3-ST - 1912304

## Approvals

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                                                                                                                                                                                                        |          |

|                                |                                                                                   |                                                           |                |
|--------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58978-B1B2 |
|                                |                                                                                   |                                                           |                |
| mm²/AWG/kcmil                  |                                                                                   | 0.2-2.5                                                   |                |
| Nominal current I <sub>N</sub> |                                                                                   | 16 A                                                      |                |
| Nominal voltage U <sub>N</sub> |                                                                                   | 250 V                                                     |                |

|                                |                                                                                     |                                                                                                                                                       |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus 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> | E60425-19931011 |
|                                | B                                                                                   | D                                                                                                                                                     |                 |
| mm²/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.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

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