

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, 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
- ✓ 90° difference in plug-in direction for the conductor connection, reduces the risk of the connector being pulled out with the conductor and narrower conductor routing to the application



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 044824 |
| GTIN                                 | 4017918044824                                                                                           |
| Weight per Piece (excluding packing) | 25.280 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Width       | 60.96 mm |
| Pitch       | 5.08 mm  |
| Dimension a | 55.88 mm |

#### General

|                     |                   |
|---------------------|-------------------|
| Range of articles   | MVSTBR 2,5/...-ST |
| Type of contact     | Female connector  |
| Number of positions | 12                |

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## Technical data

### General

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| 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 $I_N$                  | 12 A                                                      |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                       |
| Maximum load current                   | 12 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| 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>  |

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## Technical data

### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 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

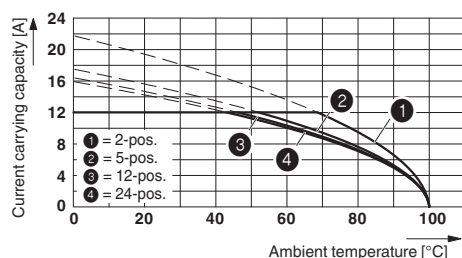
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

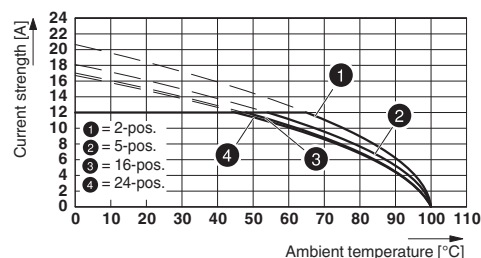
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50           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

## Drawings

Diagram



Diagram



Type: MVSTBR 2,5/...-ST(5,08) with MSTBA 2,5/...-G(-5,08)

Type: MVSTBR 2,5/...-ST-5,08 with MSTBVK 2,5/...-G-5,08

## Classifications

### eCl@ss

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

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## Classifications

### ETIM

|          |          |
|----------|----------|
| 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

#### Approvals

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

#### Ex Approvals

### Approval details

|                                |                                                                                     |                                                                                                                                                                                           |       |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                                | B                                                                                   | D                                                                                                                                                                                         |       |
| mm²/AWG/kcmil                  | 28-12                                                                               | 28-12                                                                                                                                                                                     |       |
| Nominal current I <sub>N</sub> | 10 A                                                                                | 10 A                                                                                                                                                                                      |       |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                                                                     |       |

|                                            |                                                                                     |                                                                                                                                                                                                         |          |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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/VDE-approved-products/Pages/Online-Search.aspx</a> | 40004701 |
|                                            |                                                                                     |                                                                                                                                                                                                         |          |
| mm²/AWG/kcmil                              | 0.2-2.5                                                                             |                                                                                                                                                                                                         |          |
| Nominal current I <sub>N</sub>             | 12 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> | DE1-56062-B1B2 |
| mm²/AWG/kcmil                  | 0.2-2.5             |                                                           |                |
| Nominal current I <sub>N</sub> | 12 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                                                                                                                                                     |                 |
| mm²/AWG/kcmil                  | 30-12        | 30-12                                                                                                                                                 |                 |
| Nominal current I <sub>N</sub> | 15 A         | 10 A                                                                                                                                                  |                 |
| Nominal voltage U <sub>N</sub> | 300 V        | 300 V                                                                                                                                                 |                 |

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

### Accessories

#### Accessories

##### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 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

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

Marker card - SK 5,08/3,8:UNBEDRUCKT - 0805412



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, Mounting type: Adhesive, for terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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### Additional products

Base strip - MSTBW 2,5/12-G-5,08 - 1735785



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTBVA 2,5/12-G-5,08 - 1755833



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTBA 2,5/12-G-5,08 - 1757349



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTBV 2,5/12-G-5,08 - 1758115



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

#### Base strip - MSTB 2,5/12-G-5,08 - 1759114



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MDSTBV 2,5/12-G1-5,08 - 1762606



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Housing - MDSTB 2,5/12-G1-5,08 - 1762703



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Base strip - SMSTBA 2,5/12-G-5,08 - 1767478



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTBA 2,5/12-G-5,08-LA - 1768040



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

#### Base strip - SMSTB 2,5/12-G-5,08 - 1769560



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTBV 2,5/12-GEH-5,08 - 1808560



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Housing - MDSTBA 2,5/12-G-5,08 - 1842160



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Housing - MDSTBW 2,5/12-G-5,08 - 1842319



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Housing - MDSTB 2,5/12-G-5,08 - 1842610



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1736771, 1736768. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

#### Housing - MDSTBVA 2,5/12-G-5,08 - 1845439



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Housing - MDSTBV 2,5/12-G-5,08 - 1845581



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1836477, 1836480. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Base strip - EMSTBVA 2,5/12-G-5,08 - 1859616



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - EMSTBA 2,5/12-G-5,08 - 1880407



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - DFK-MSTBA 2,5/12-G-5,08 - 1898936



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

Base strip - DFK-MSTBVA 2,5/12-G-5,08 - 1899236



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Printed-circuit board connector - CC 2,5/12-G-5,08 P26THR - 1954579



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - CC 2,5/12-G-5,08 P26THRR88 - 1954689



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - CCA 2,5/12-G-5,08 P26THR - 1955028



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - CCA 2,5/12-G-5,08 P26THRR88 - 1955138



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

#### Printed-circuit board connector - CCV 2,5/12-G-5,08 P26THR - 1955510



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Printed-circuit board connector - CCV 2,5/12-G-5,08 P26THRR88 - 1955620



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Printed-circuit board connector - CCVA 2,5/12-G-5,08 P26THR - 1955950



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Printed-circuit board connector - CCVA 2,5/12-G-5,08 P26THRR88 - 1956069



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Printed-circuit board connector - CCA 2,5/12-GL-5,08P26THR - 1959163



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

## Printed-circuit board connector - MVSTBR 2,5/12-ST-5,08 - 1792346

### Accessories

Printed-circuit board connector - CCA 2,5/12-GR-5,08P26THR - 1959309



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.