

## MSTBT 2,5/ 9-ST

Order No.: 1779903

The figure shows a 10-position version of the product



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1779903>

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V,  
Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn

### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 040598 |
| sales group              | E111                                                                                                  |
| Pack                     | 50 pcs.                                                                                               |
| Customs tariff           | 85366990                                                                                              |
| Catalog page information | Page 200 (CC-2009)                                                                                    |

### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



<http://www.download.phoenixcontact.com>  
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### Technical data

#### Dimensions / positions

|                        |        |
|------------------------|--------|
| Pitch                  | 5 mm   |
| Dimension a            | 40 mm  |
| Number of positions    | 9      |
| Screw thread           | M3     |
| Tightening torque, min | 0.5 Nm |

|                       |        |
|-----------------------|--------|
| Tightening torque max | 0.6 Nm |
|-----------------------|--------|

#### Technical data

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| Range of articles                   | MSTBT 2,5/...-ST                                        |
| 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/2)               | 320 V                                                   |
| Rated voltage (II/2)                | 630 V                                                   |
| Connection in acc. with standard    | EN-VDE                                                  |
| Nominal current $I_N$               | 12 A                                                    |
| Nominal voltage $U_N$               | 250 V                                                   |
| Nominal cross section               | 2.5 mm <sup>2</sup>                                     |
| Maximum load current                | 12 A (with 2.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                 | PA                                                      |
| Inflammability class acc. to UL 94  | V0                                                      |
| Internal cylindrical gage           | A3                                                      |
| Stripping length                    | 7 mm                                                    |
| Nominal voltage, UL/CUL Use Group B | 250 V                                                   |
| Nominal current, UL/CUL Use Group B | 12 A                                                    |
| Nominal voltage, UL/CUL Use Group D | 300 V                                                   |
| Nominal current, UL/CUL Use Group D | 10 A                                                    |

#### 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 stranded min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.                                      | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 24                   |

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section AWG/kcmil 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                   |
| Maximum AWG according to UL/CUL                                                         | 12                   |

#### Certificates / Approvals



Certification

CB, CSA, CUL, GOST, UL, VDE-PZI

#### Accessories

| Item           | Designation     | Description                                                                                           |
|----------------|-----------------|-------------------------------------------------------------------------------------------------------|
| <b>General</b> |                 |                                                                                                       |
| 1733169        | EBP 2- 5        | Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch, no. of positions: 2 |
| 1803934        | KGG-MSTB 2,5/ 2 | Cable housing, Pitch: 0 mm, Number of positions: 2, Dimension a: 10 mm, Color: green                  |
| 1783779        | KGS-MSTB 2,5/ 8 | Cable housing, Pitch: 0 mm, Number of positions: 8, Dimension a: 40 mm, Color: green                  |

#### Marking

|         |                       |                                                                                                                                                     |
|---------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 0804183 | SK 5/3,8:FORTL.ZAHLEN | Marker card, printed horizontally, self-adhesive, 12 identical decades marked 1-10, 11-20 etc. up to 91-(99)100, sufficient for 120 terminal blocks |
|---------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

#### Plug/Adapter

|         |         |                                                                                                   |
|---------|---------|---------------------------------------------------------------------------------------------------|
| 1734634 | CP-MSTB | Keying profile, is inserted into the slot on the plug or inverted header, red insulating material |
|---------|---------|---------------------------------------------------------------------------------------------------|

#### Tools

|         |             |                                                                                                                                                                  |
|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1205053 | SZS 0,6X3,5 | 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 |
|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

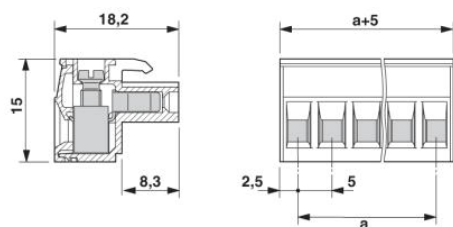
#### Additional products

| Item           | Designation       | Description                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                   |                                                                                                                                                                                                                                                                                                                                                                                                             |
| 0707167        | DFK-MSTB 2,5/ 9-G | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Direct mounting, Accessory order no. 5030172 can only be used in conjunction with MSTB 2,5/...ST and MSTBT 2,5/...ST.                                                                                                                                  |
| 1899919        | EMSTBA 2,5/ 9-G   | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Press-in                                                                                                                                                                                                                                                       |
| 1914920        | EMSTBVA 2,5/ 9-G  | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Press-in                                                                                                                                                                                                                                                       |
| 1762761        | MDSTB 2,5/ 9-G1   | Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: 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!                                                                   |
| 1846580        | MDSTBA 2,5/ 9-G   | Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: 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! |
| 1762910        | MDSTBV 2,5/ 9-G1  | Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: 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!                                                                   |

|         |                   |                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1845853 | MDSTBVA 2,5/ 9-G  | Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: 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! |
| 1754575 | MSTB 2,5/ 9-G     | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1768257 | MSTB 2,5/ 9-G-LA  | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1757530 | MSTBA 2,5/ 9-G    | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1770559 | MSTBA 2,5/ 9-G-LA | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1753576 | MSTBV 2,5/ 9-G    | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1755587 | MSTBVA 2,5/ 9-G   | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1736043 | MSTBW 2,5/ 9-G    | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1769308 | SMSTB 2,5/ 9-G    | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |
| 1769874 | SMSTBA 2,5/ 9-G   | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                      |

## Diagrams/Drawings

### Dimensioned drawing



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