

## MSTB 2,5/ 7-ST-5,08

Order No.: 1757064

The figure shows a 10-position version of the product

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1757064>

Plug component, Nominal current: 12 A, Nom. voltage: 250 V, Pitch:  
5.08 mm, Number of positions: 7, Connection type: Screw connection,  
Color: green

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918029593      |
| Pack                     | 50 pcs.            |
| Customs tariff           | 85366990           |
| Weight/Piece             | 0.012035 KG        |
| Catalog page information | Page 198 (CC-2009) |

### Product notes

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



[http://  
www.download.phoenixcontact.com](http://www.download.phoenixcontact.com)  
Please note that the data given  
here has been taken from the  
online catalog. For comprehensive  
information and data, please refer  
to the user documentation. The  
General Terms and Conditions of  
Use apply to Internet downloads.

### Technical data

#### Dimensions / positions

|                     |          |
|---------------------|----------|
| Pitch               | 5.08 mm  |
| Dimension a         | 30.48 mm |
| Number of positions | 7        |
| Screw thread        | M3       |

|                        |        |
|------------------------|--------|
| Tightening torque, min | 0.5 Nm |
| Tightening torque max  | 0.6 Nm |

#### Technical data

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

#### 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.    | 2.5 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>  |

#### Certificates / Approvals



Certification

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

#### CSA

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 28-12 |

#### CUL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 30-12 |

#### UL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 30-12 |

## Accessories

| Item                | Designation              | Description                                                                                                                                                                               |
|---------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bridges</b>      |                          |                                                                                                                                                                                           |
| 1733172             | EBP 3- 5                 | Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch, no. of positions: 3                                                                                     |
| 1733185             | EBP 4- 5                 | Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch, no. of positions: 4                                                                                     |
| 1733198             | EBP 5- 5                 | Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch, no. of positions: 5                                                                                     |
| <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                                                                                     |
| 1803918             | KGG-MSTB 2,5/ 7          | Cable housing, Number of positions: 7, Dimension a: 35 mm, Color: green                                                                                                                   |
| <b>Marking</b>      |                          |                                                                                                                                                                                           |
| 1051993             | B-STIFT                  | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm                                                                               |
| 0805108             | SK 5,08/2,8:SO           | Marker card, special printing, self-adhesive, labeled acc. to customer requirements, 14 identical marker strips per card, max. 25-position labeling per strip, color: White               |
| 0804293             | SK 5,08/3,8: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                                       |
| 0803883             | SK U/2,8 WH:UNBEDRUCKT   | Unprinted marker cards, DIN A4 format, pitch as desired, self-adhesive, with 50 stamped marker strips, 185 mm strip length, can be labeled with the CMS system or manually with the M-PEN |
| <b>Plug/Adapter</b> |                          |                                                                                                                                                                                           |
| 1734634             | CP-MSTB                  | Keying profile, is inserted into the slot on the plug or inverted header, red insulating material                                                                                         |
| <b>Tools</b>        |                          |                                                                                                                                                                                           |
| 1205053             | SZS 0,6X3,5              | Screwdriver, bladed, matches all screw terminal blocks up to 4.0 mm <sup>2</sup> connection cross section, blade: 0.6 x 3.5 mm, without VDE approval                                      |

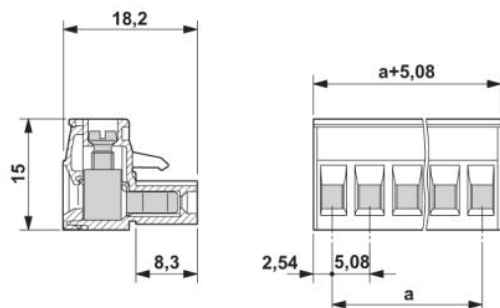
#### Additional products

| Item           | Designation            | Description                                                                                                                                                                                                                                            |
|----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                        |                                                                                                                                                                                                                                                        |
| 1880355        | EMSTBA 2,5/ 7-G-5,08   | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Assembly: Press-in                                                                                                                                         |
| 1859564        | EMSTBVA 2,5/ 7-G-5,08  | Header, Nominal current: 12 A, Nom. voltage: 200 V, Pitch: 5.08 mm, Number of positions: 7, Assembly: Press-in                                                                                                                                         |
| 1873401        | FKIC 2,5/ 7-ST-5,08    | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 7, Connection type: Spring-cage conn.                                                                                                                 |
| 1823891        | ICC 2,5/ 7-STZ-5,08    | Plug component, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Connection type: Crimp connection                                                                                                                  |
| 1762428        | MDSTB 2,5/ 7-G1-5,08   | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Color: green, Assembly: Soldering                                                                                                                          |
| 1842115        | MDSTBA 2,5/ 7-G-5,08   | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Assembly: Soldering                                                                                                                                        |
| 1762554        | MDSTBV 2,5/ 7-G1-5,08  | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Color: green, Assembly: Soldering                                                                                                                          |
| 1770766        | MSTB 2,5/ 7-G-5,08-LA  | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Assembly: Soldering                                                                                                                                        |
| 1757297        | MSTBA 2,5/ 7-G-5,08    | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Color: green, Assembly: Soldering                                                                                                                          |
| 1770999        | MSTBA 2,5/ 7-G-5,08-LA | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Assembly: Soldering                                                                                                                                        |
| 1788774        | MSTBVK 2,5/ 7-G-5,08   | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 7, Connection type: Screw connection, Assembly: DIN rail, Color: green                                                                                |
| 1788583        | MVSTBU 2,5/ 7-GB-5,08  | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 7, Connection type: Screw connection, Assembly: Direct mounting                                                                                       |
| 1769515        | SMSTB 2,5/ 7-G-5,08    | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Color: green, Assembly: Soldering                                                                                                                          |
| 1767423        | SMSTBA 2,5/ 7-G-5,08   | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 7, Color: green, Assembly: Soldering                                                                                                                          |
| 3002034        | UK 3-MSTB-5,08         | Feed-through modular terminal block, Type of connection: Special and hybrid connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.08 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5 |
| 3002076        | UK 3-MVSTB-5,08        | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Pitch: 5.08 mm, Width: 5.1, Color: gray          |

|         |                          |                                                                                                                                                                                                                                                                  |
|---------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3002102 | UK 3-MVSTB-5,08-LA 24RD  | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Pitch: 5.08 mm, Width: 5.08, Color: gray                   |
| 3002063 | UK 3-MVSTB-5,08/EK       | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.1, Color: blue                    |
| 3002131 | UK 3D-MSTBV-5,08         | Feed-through modular terminal block, Type of connection: Special and hybrid connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.08 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5           |
| 3002144 | UK 3D-MSTBV-5,08-LA 24RD | Feed-through modular terminal block, Type of connection: Screw connection, Screw connection, Number of positions: 1, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.1 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5 |
| 3002173 | UK 3D-MSTBV-5,08/EK      | Feed-through modular terminal block, Type of connection: Screw connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.1 mm, Color: blue, Mounting type: NS 32, NS 35/15, NS 35/7,5                         |
| 2770888 | UKK 3-MSTB-5,08          | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: gray                   |
| 1876615 | UKK 3-MSTB-5,08-PE       | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 320 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: green-yellow           |
| 2770846 | UKK 3-MSTBVH-5,08        | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: gray                   |
| 1788169 | UMSTBVK 2,5/ 7-G-5,08    | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 7, Connection type: Screw connection, Assembly: DIN rail, Color: green                                                                                          |
| 1873016 | ZFKK 1,5-MSTBV-5,08      | Feed-through modular terminal block, Connection method: Special and hybrid connection, MSTB plug entry, Cross section: 0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup> , Width: 5.1 mm, Color: gray                                                                    |

## Diagrams/Drawings

### Dimensioned drawing



**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



© 2010 Phoenix Contact  
Technical modifications reserved;