

## IC 2,5/ 8-ST-5,08

Order No.: 1786239

The figure shows a 10-position version of the product

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1786239>

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V,  
Pitch: 5.08 mm, Color: green, Metal surface: Sn

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| GTIN (EAN)               | 4017918042387      |
| sales group              | E131               |
| Pack                     | 50 pcs.            |
| Customs tariff           | 85366990           |
| Weight/Piece             | 0.01374 KG         |
| Catalog page information | Page 208 (CC-2009) |

### Product notes

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



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### Technical data

#### Dimensions / positions

|                        |          |
|------------------------|----------|
| Pitch                  | 5.08 mm  |
| Dimension a            | 35.56 mm |
| Number of positions    | 8        |
| 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                |
| 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.    | 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>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 12                   |

#### 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 |
|------|-------------|-------------|
|------|-------------|-------------|

### Assembly

|         |         |                                                                                    |
|---------|---------|------------------------------------------------------------------------------------|
| 1755477 | MSTB-BL | Keying cap, for forming sections, plugs onto header pin, green insulating material |
|---------|---------|------------------------------------------------------------------------------------|

### General

|         |                 |                                                                                                       |
|---------|-----------------|-------------------------------------------------------------------------------------------------------|
| 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, Number of positions: 2, Dimension a: 10 mm, Color: green                               |
| 1783779 | KGS-MSTB 2,5/ 8 | Cable housing, Number of positions: 8, Dimension a: 40 mm, Color: green                               |

### Marking

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

### Plug/Adapter

|         |         |                                                                                                      |
|---------|---------|------------------------------------------------------------------------------------------------------|
| 1734401 | CR-MSTB | Coding section, inserted into the recess in the header or the inverted plug, red insulating material |
|---------|---------|------------------------------------------------------------------------------------------------------|

### Tools

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

### General

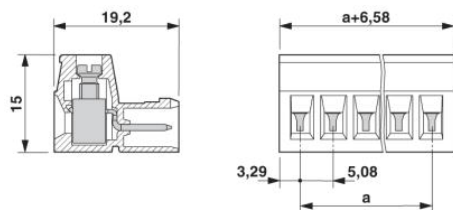
|         |                           |                                                                                                                      |
|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1873113 | FKC 2,5/ 8-ST-5,08        | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn |
| 1902178 | FKCT 2,5/ 8-ST-5,08       | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn |
| 1874015 | FKCVR 2,5/ 8-ST-5,08      | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn |
| 1873715 | FKCVW 2,5/ 8-ST-5,08      | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn |
| 1777345 | FRONT-MSTB 2,5/ 8-ST-5,08 | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn |

|         |                        |                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1786462 | IC 2,5/ 8-G-5,08       | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                             |
| 1786006 | ICV 2,5/ 8-G-5,08      | Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                                                                                                                             |
| 1757077 | MSTB 2,5/ 8-ST-5,08    | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1764235 | MSTB 2,5/ 8-STZ-5,08   | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1808874 | MSTBC 2,5/ 8-ST-5,08   | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Corresponding female crimp contacts with current [A] and conductor cross section range [mm <sup>2</sup> ] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte |
| 1809569 | MSTBC 2,5/ 8-STZ-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Corresponding female crimp contacts with current [A] and conductor cross section range [mm <sup>2</sup> ] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte |
| 1769078 | MSTBP 2,5/ 8-ST-5,08   | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1781043 | MSTBT 2,5/ 8-ST-5,08   | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1824188 | MSTBU 2,5/ 8-STD-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Assembly: Direct mounting                                                                                                                                                                                                                                               |
| 1831375 | MSTBVK 2,5/ 8-ST-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Assembly: DIN rail                                                                                                                                                                                                                                                      |
| 1792304 | MVSTBR 2,5/ 8-ST-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1792812 | MVSTBW 2,5/ 8-ST-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1883310 | QC 1/ 8-ST-5,08        | Plug component, Nominal current: 10 A, Rated voltage (III/2): 630 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1826348 | SMSTB 2,5/ 8-ST-5,08   | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn                                                                                                                                                                                                                                                                          |
| 1853078 | TMSTBP 2,5/ 8-ST-5,08  | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, The plug allows conductors to be looped through from module to module.                                                                                                                                                                                                  |
| 1833878 | UMSTBVK 2,5/ 8-ST-5,08 | Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Pitch: 5.08 mm, Color: green, Metal surface: Sn, Assembly: DIN rail                                                                                                                                                                                                                                                      |

|         |                   |                                                                                                                                                                              |
|---------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1873029 | ZFKK 1,5-ICV-5,08 | Feed-through modular terminal block, Connection method: Special and hybrid connection, 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>



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