

## FRONT-MC 1,5/17-ST-3,81

Order No.: 1850819

The figure shows a 10-position version of the product



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1850819>

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V,  
Pitch: 3.81 mm, Color: green, Metal surface: Sn

### Commercial data

|                          |                   |
|--------------------------|-------------------|
| GTIN (EAN)               | 4017918109622     |
| Note                     | Made-to-order     |
| sales group              | E101              |
| Pack                     | 50 pcs.           |
| Customs tariff           | 85366990          |
| Weight/Piece             | 0.02585 KG        |
| Catalog page information | Page 83 (CC-2005) |

### Product notes

WEEE/RoHS-compliant since:  
01/25/2005



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

#### Dimensions / positions

|                        |          |
|------------------------|----------|
| Pitch                  | 3.81 mm  |
| Dimension a            | 60.96 mm |
| Number of positions    | 17       |
| Screw thread           | M2       |
| Tightening torque, min | 0.22 Nm  |

|                       |         |
|-----------------------|---------|
| Tightening torque max | 0.25 Nm |
|-----------------------|---------|

#### Technical data

|                                     |                                                        |
|-------------------------------------|--------------------------------------------------------|
| Insulating material group           | I                                                      |
| Rated surge voltage (III/3)         | 2.5 kV                                                 |
| Rated surge voltage (III/2)         | 2.5 kV                                                 |
| Rated surge voltage (II/2)          | 2.5 kV                                                 |
| Rated voltage (III/2)               | 160 V                                                  |
| Rated voltage (II/2)                | 320 V                                                  |
| Connection in acc. with standard    | EN-VDE                                                 |
| Nominal current $I_N$               | 8 A                                                    |
| Nominal voltage $U_N$               | 160 V                                                  |
| Nominal cross section               | 1.5 mm <sup>2</sup>                                    |
| Maximum load current                | 8 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                 | PA                                                     |
| Inflammability class acc. to UL 94  | V0                                                     |
| Internal cylindrical gage           | A1                                                     |
| Stripping length                    | 9 mm                                                   |
| Nominal voltage, UL/CUL Use Group B | 250 V                                                  |
| Nominal current, UL/CUL Use Group B | 8 A                                                    |
| Nominal voltage, UL/CUL Use Group D | 300 V                                                  |
| Nominal current, UL/CUL Use Group D | 8 A                                                    |

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1.5 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. | 1.5 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.    | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 28                   |
| Conductor cross section AWG/kcmil max                                      | 16                   |

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 2 conductors with same cross section, solid min.                                        | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 0.75 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.   | 0.34 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. | 0.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 16                   |

#### Certificates / Approvals



Certification

CB, CSA, CUL, UL, VDE-PZI

#### CSA

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 8 A   |
| AWG/kcmil                      | 28-16 |

#### CUL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 8 A   |
| AWG/kcmil                      | 30-16 |

#### UL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 8 A   |
| AWG/kcmil                      | 30-16 |

## Accessories

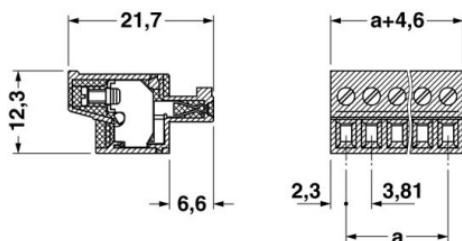
| Item           | Designation              | Description                                                                                                                                                                               |
|----------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Marking</b> |                          |                                                                                                                                                                                           |
| 1051993        | B-STIFT                  | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm                                                                               |
| 0804109        | SK 3,81/2,8:FORTL.ZAHLEN | Marker card, printed horizontally, self-adhesive, 10-section marker strip, 14 identical decades marked 1-10, 11-20 etc. up to 91-(99)100, sufficient for 140 terminal blocks              |
| 0805056        | SK 3,81/2,8: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               |
| 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>Tools</b>   |                          |                                                                                                                                                                                           |
| 1205037        | SZS 0,4X2,5              | Screwdriver, bladed, matches all screw terminal blocks up to 1.5 mm <sup>2</sup> connection cross section, blade: 0.4 x 2.5 mm                                                            |

## Additional products

| Item           | Designation       | Description                                                                                                                      |
|----------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                   |                                                                                                                                  |
| 1841307        | MC 1,5/17-G-3,81  | Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Pitch: 3.81 mm, Color: green, Metal surface: Sn, Assembly: Soldering |
| 1844896        | MCV 1,5/17-G-3,81 | Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Pitch: 3.81 mm, Color: green, Metal surface: Sn, Assembly: Soldering |

## Diagrams/Drawings

Dimensioned drawing



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