

## IMC 1,5/ 8-ST-3,81

Order No.: 1857948

The figure shows a 10-position version of the product

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1857948>

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

### Commercial data

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| GTIN (EAN)               |  |
| sales group              | E101                                                                                |
| Pack                     | 50 pcs.                                                                             |
| Customs tariff           | 85366990                                                                            |
| Catalog page information | Page 148 (CC-2009)                                                                  |

### Product notes

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



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### Technical data

#### Dimensions / positions

|                     |          |
|---------------------|----------|
| Pitch               | 3.81 mm  |
| Dimension a         | 26.67 mm |
| Number of positions | 8        |
| Screw thread        | M2       |

|                        |         |
|------------------------|---------|
| Tightening torque, min | 0.22 Nm |
| Tightening torque max  | 0.25 Nm |

#### Technical data

|                                     |                                                        |
|-------------------------------------|--------------------------------------------------------|
| Range of articles                   | IMC 1,5/..-ST                                          |
| 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                    | 7 mm                                                   |
| Nominal voltage, UL/CUL Use Group B | 300 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.                                        | 0.08 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.                                     | 0.08 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.   | 0.2 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                                                         | 14                   |

#### Certificates / Approvals



Certification

CB, CUL, GOST, UL, VDE-PZI

#### Accessories

| Item           | Designation              | Description                                                                                                                                                                  |
|----------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                          |                                                                                                                                                                              |
| 1834343        | KGG-MC 1,5/ 2            | Cable housing, Pitch: 0 mm, Number of positions: 2, Dimension a: 10.01 mm, Color: green                                                                                      |
| 1834385        | KGG-MC 1,5/ 6            | Cable housing, Pitch: 0 mm, Number of positions: 6, Dimension a: 25.25 mm, Color: green                                                                                      |
| <b>Marking</b> |                          |                                                                                                                                                                              |
| 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 |

#### Plug/Adapter

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

#### Tools

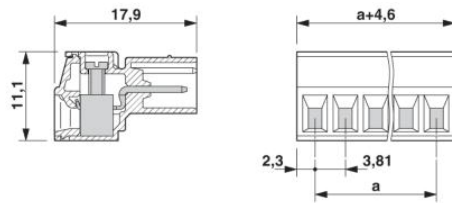
|         |                 |                                                                                                   |
|---------|-----------------|---------------------------------------------------------------------------------------------------|
| 1205037 | SZS 0,4X2,5 VDE | Screwdriver, bladed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip |
|---------|-----------------|---------------------------------------------------------------------------------------------------|

#### Additional products

| Item           | Designation             | Description                                                                                                                                                                                                                                                                                                            |
|----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                         |                                                                                                                                                                                                                                                                                                                        |
| 1851106        | FK-MCP 1,5/ 8-ST-3,81   | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |
| 1850725        | FRONT-MC 1,5/ 8-ST-3,81 | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |
| 1862632        | IMC 1,5/ 8-G-3,81       | Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                               |
| 1875483        | IMCV 1,5/ 8-G-3,81      | Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn, Assembly: Soldering                                                                                                                                                               |
| 1803633        | MC 1,5/ 8-ST-3,81       | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |
| 1852231        | MCC 1/ 8-STZ-3,81       | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn, Corresponding female crimp contacts with current [A] and conductor cross section range [mm <sup>2</sup> ] data: 5A/MCC-MT 0,2-0,35 (1859988); 8A/MCC-MT 0,5-1,0 (1859991) |
| 1827185        | MCVR 1,5/ 8-ST-3,81     | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |
| 1827033        | MCVW 1,5/ 8-ST-3,81     | Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |
| 1897458        | QC 0,5/ 8-ST-3,81       | Plug component, Nominal current: 6 A, Rated voltage (III/2): 200 V, Number of positions: 8, Pitch: 3.81 mm, Color: green, Metal surface: Sn                                                                                                                                                                            |

## Diagrams/Drawings

### Dimensioned drawing



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