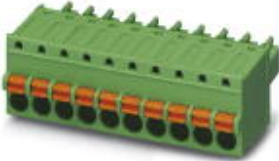


## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, connection method: Push-in spring connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Quick and convenient testing using integrated test option



### Key Commercial Data

|                                      |                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                |
| GTIN                                 |  |
| GTIN                                 | 4017918109653                                                                        |
| Weight per Piece (excluding packing) | 11.330 g                                                                             |
| Custom tariff number                 | 85366990                                                                             |
| Country of origin                    | Germany                                                                              |

### Technical data

#### Dimensions

|        |          |
|--------|----------|
| Length | 21 mm    |
| Height | 12.4 mm  |
| Width  | 46.51 mm |
| Pitch  | 3.81 mm  |

# Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Dimension a | 41.91 mm |
|-------------|----------|

### General

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Range of articles                      | FK-MCP 1,5/...-ST                                      |
| Type of contact                        | Female connector                                       |
| Number of positions                    | 12                                                     |
| Connection method                      | Push-in spring connection                              |
| 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/3)                  | 160 V                                                  |
| 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 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                                                     |
| Flammability rating according to UL 94 | V0                                                     |
| Internal cylindrical gage              | A1                                                     |
| Stripping length                       | 9 mm                                                   |

### 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 flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 0.75 mm <sup>2</sup> |
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 16                   |
| Minimum AWG according to UL/CUL                                            | 28                   |
| Maximum AWG according to UL/CUL                                            | 16                   |

### Standards and Regulations

|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|----------------------------------|--------|

# Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

## Technical data

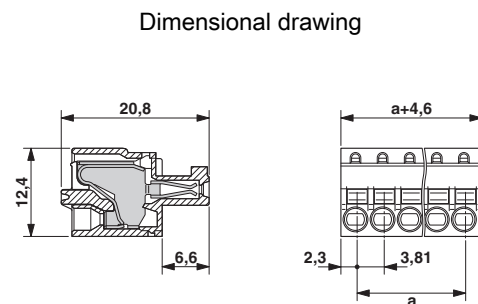
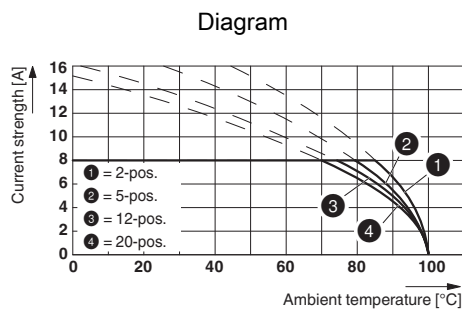
### Standards and Regulations

|                                        |     |
|----------------------------------------|-----|
|                                        | CSA |
| Flammability rating according to UL 94 | V0  |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings



Type: FK-MCP 1,5/...-ST(F)-3,81 with MC 1,5/...-G(F)-3,81 P.. THR(R...)

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

# Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

#### Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECCE CB Scheme / CCA / cULus Recognized / EAC

#### Ex Approvals

### Approval details

|                                |                                                                                     |                                                                                                                                                                                           |       |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                                |                                                                                     | B                                                                                                                                                                                         |       |
| mm²/AWG/kcmil                  |                                                                                     | 28-16                                                                                                                                                                                     |       |
| Nominal current I <sub>N</sub> |                                                                                     | 8 A                                                                                                                                                                                       |       |
| Nominal voltage U <sub>N</sub> |                                                                                     | 300 V                                                                                                                                                                                     |       |

|                                         |                                                                                     |                                                                                                                                                                                                         |          |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a> | 40011723 |
|                                         |                                                                                     |                                                                                                                                                                                                         |          |
| mm²/AWG/kcmil                           |                                                                                     | 0.2-1.5                                                                                                                                                                                                 |          |
| Nominal current I <sub>N</sub>          |                                                                                     | 8 A                                                                                                                                                                                                     |          |
| Nominal voltage U <sub>N</sub>          |                                                                                     | 160 V                                                                                                                                                                                                   |          |

## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

### Approvals

|                                |                     |                                                           |                |
|--------------------------------|---------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme                | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58415-B1B2 |
| mm²/AWG/kcmil                  | 0.2-1.5             |                                                           |                |
| Nominal current I <sub>N</sub> | 8 A                 |                                                           |                |
| Nominal voltage U <sub>N</sub> | 160 V               |                                                           |                |

|                                |                |  |  |
|--------------------------------|----------------|--|--|
| CCA                            | CCA/ DE1 34219 |  |  |
| mm²/AWG/kcmil                  | 0.2-1.5        |  |  |
| Nominal current I <sub>N</sub> | 8 A            |  |  |
| Nominal voltage U <sub>N</sub> | 160 V          |  |  |

|                                |              |                                                                                                                                                       |                 |
|--------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized               | <b>cULus</b> | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-19920306 |
|                                | B            |                                                                                                                                                       |                 |
| mm²/AWG/kcmil                  | 28-16        |                                                                                                                                                       |                 |
| Nominal current I <sub>N</sub> | 8 A          |                                                                                                                                                       |                 |
| Nominal voltage U <sub>N</sub> | 300 V        |                                                                                                                                                       |                 |

|     |            |         |  |
|-----|------------|---------|--|
| EAC | <b>EAC</b> | B.01742 |  |
|-----|------------|---------|--|

### Accessories

#### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

#### Labeled terminal marker

## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

### Accessories

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 3.81 mm, Lettering field: 3.81 x 2.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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### Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 2.8 mm

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Test plugs - MPS-MT 1-S - 1944372



Test plugs, consisting of Ø 1 mm test pin, 150 mm conductor length, and Ø 2 mm socket

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### Additional products

## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

### Accessories

#### Base strip - MCV 1,5/12-G-3,81 P14 THR - 1707104



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Base strip - MCV 1,5/12-G-3,81 P26 THR - 1707528



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Base strip - MCV 1,5/12-G-3,81 P26 THRR72 - 1712982



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering

#### Printed-circuit board connector - MC 1,5/12-G-3,81 P20 THRR72 - 1782679



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Base strip - MC 1,5/12-G-3,81 - 1803374



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

### Accessories

#### Base strip - MCV 1,5/12-G-3,81 - 1803523



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

#### Base strip - SMC 1,5/12-G-3,81 - 1827376



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

#### Base strip - MCD 1,5/12-G-3,81 - 1830059



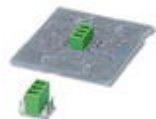
Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

#### Base strip - MCDV 1,5/12-G-3,81 - 1830509



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

#### Base strip - MCVDU 1,5/12-G-3,81 - 1837531

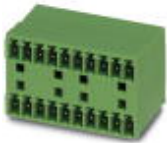


Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - FK-MCP 1,5/12-ST-3,81 - 1851148

### Accessories

#### Base strip - MCD 1,5/12-G1-3,81 - 1843172



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

#### Base strip - MCDV 1,5/12-G1-3,81 - 1847835



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

#### Base strip - EMCV 1,5/12-G-3,81 - 1860744



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Press-in technology

#### Base strip - EMC 1,5/12-G-3,81 - 1897908



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Press-in technology

#### Base strip - MC 1,5/12-G-3,81 THT - 1908868



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

