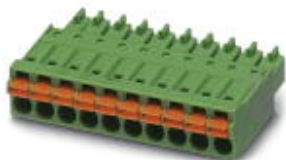


# Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

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>)

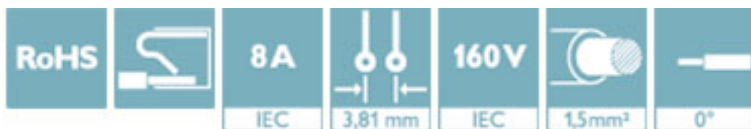
Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin



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



## Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 50 STK        |
| Minimum order quantity               | 50 STK        |
| GTIN                                 |               |
| GTIN                                 | 4046356311052 |
| Weight per Piece (excluding packing) | 3.600 g       |
| Custom tariff number                 | 85366990      |
| Country of origin                    | Germany       |

## Technical data

### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 21.9 mm  |
| Width [ w ]  | 23.3 mm  |
| Height [ h ] | 7.75 mm  |
| Pitch        | 3.81 mm  |
| Dimension a  | 19.05 mm |

### General

|                   |                |
|-------------------|----------------|
| Range of articles | FMC 1,5/...-ST |
|-------------------|----------------|

# Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

## Technical data

### General

|  |                           |
|--|---------------------------|
| Type of contact                        | Female connector          |
| Number of positions                    | 6                         |
| 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                       |
| Insulating material                    | PA                        |
| Flammability rating according to UL 94 | V0                        |
| Internal cylindrical gage              | A1                        |
| Stripping length                       | 10 mm                     |

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.2 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.    | 1 mm <sup>2</sup>    |
| Conductor cross section AWG min.   | 24                   |
| Conductor cross section AWG max.   | 16                   |
| Minimum AWG according to UL/CUL  | 24                   |
| Maximum AWG according to UL/CUL  | 16                   |

### Specifications for ferrules

|  |  |
|--|--|
| Ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.25 mm <sup>2</sup> ; Length: 5 mm ... 7 mm  |
|  | Cross section: 0.34 mm <sup>2</sup> ; Length: 7 mm           |
|  | Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm  |
|  | Cross section: 0.75 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |
|  | Cross section: 1 mm <sup>2</sup> ; Length: 8 mm ... 10 mm    |
| Ferrules with insulating collar, according to DIN 46228-4    | Cross section: 1.5 mm <sup>2</sup> ; Length: 10 mm           |
|  | Cross section: 0.14 mm <sup>2</sup> ; Length: 8 mm           |
|  | Cross section: 0.34 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |

# Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

## Technical data

### Specifications for ferrules

|  |  |
|--|--|
|  | Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm  |
|  | Cross section: 0.75 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |
|  | Cross section: 1 mm <sup>2</sup> ; Length: 10 mm             |

### Standards and Regulations

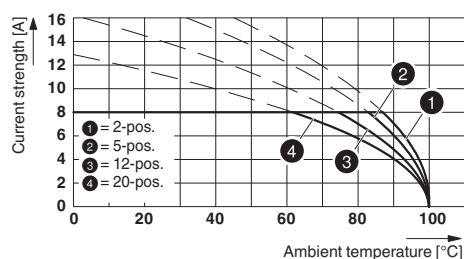
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

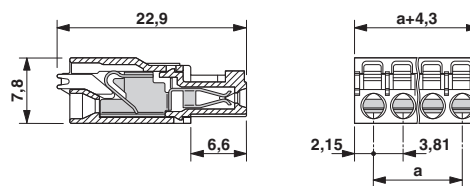
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Diagram



Dimensional drawing



Type: FMC 1,5/...-ST-3,81 with MCV 1,5/...-G-3,81 P.. THR

## 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 - FMC 1,5/ 6-ST-3,81 - 1748011

## Classifications

### UNSPSC

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

## Approvals


### Approvals


#### Approvals

VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|   |   |   |          |
|---|---|---|----------|
| 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 |
| mm <sup>2</sup> /AWG/kcmil              | 0.2-1.5   |   |          |
| Nominal current I <sub>N</sub>          | 8 A   |   |          |
| Nominal voltage U <sub>N</sub>          | 160 V   |   |          |

|                                |   |   |                |
|--------------------------------|---|---|----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58415-B1B2 |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5   |   |                |
| Nominal current I <sub>N</sub> | 8 A   |   |                |
| Nominal voltage U <sub>N</sub> | 160 V   |   |                |

|     |   |         |
|-----|---|---------|
| EAC |  | B.01742 |
|-----|---|---------|

# Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

## Approvals

|                                |       |   |                 |
|--------------------------------|-------|---|-----------------|
| cULus Recognized               |       | <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     | C   |                 |
| mm <sup>2</sup> /AWG/kcmil     | 24-16 | 24-16   |                 |
| Nominal current I <sub>N</sub> | 8 A   | 8 A   |                 |
| Nominal voltage U <sub>N</sub> | 300 V | 50 V  |                 |

## 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 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

#### Labeled terminal marker

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

#### 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

#### Additional products

## Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

### Accessories

#### Base strip - MCV 1,5/ 6-G-3,81 P14 THR - 1707049

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 P26 THR - 1707463

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 P26 THRR56 - 1712911

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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 - MCDN 1,5/ 6-G1-3,81 P14THR - 1749379

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: Downloads".



#### Printed-circuit board connector - MCDN 1,5/ 6-G1-3,81 P26THR - 1749560

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering, The pin length is 2.6 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads"



## Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

### Accessories

#### Base strip - MCDNV 1,5/ 6-G1-3,81 P14THR - 1750148



Header, nominal current: 8 A, rated voltage (III/2): 200 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: Downloads".

#### Printed-circuit board connector - MCDNV 1,5/ 6-G1-3,81 P26THR - 1750339



Header, nominal current: 8 A, rated voltage (III/2): 200 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering, The pin length is 26 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [http: "Downloads"](http://\).

#### Printed-circuit board connector - MC 1,5/ 6-G-3,81 P20 THRR56 - 1782611



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering

#### Base strip - MC 1,5/ 6-G-3,81 - 1803316



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Base strip - MCV 1,5/ 6-G-3,81 - 1803468



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

### Accessories

#### Base strip - SMC 1,5/ 6-G-3,81 - 1827318



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Base strip - MCD 1,5/ 6-G-3,81 - 1829992



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 - 1830444



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 - 1837476



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Base strip - MCD 1,5/ 6-G1-3,81 - 1843114



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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.



## Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

### Accessories

Base strip - MCDV 1,5/ 6-G1-3,81 - 1847767



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 - 1860689



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Press-in technology

---

Base strip - MCO 1,5/ 6-GR-3,81 - 1861688



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

---

Base strip - MCO 1,5/ 6-GL-3,81 - 1861769



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

---

Base strip - EMC 1,5/ 6-G-3,81 - 1897843



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Press-in technology

---

## Printed-circuit board connector - FMC 1,5/ 6-ST-3,81 - 1748011

### Accessories

#### Base strip - MC 1,5/ 6-G-3,81 THT - 1908800



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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/ 6-G-3,81 THT-R56 - 1943797



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, 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 - MCD 1,5/ 6-G1-3,81 HT BK - 1958368



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, Color: black, contact surface: Tin, mounting: THR soldering, Standard component made of highly temperature resistant plastic; suitable for reflow process. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads".