# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

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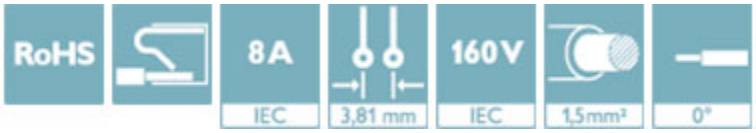
PCB connector, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

The figure shows a 10-position version of the product

## Your advantages

- 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
- Screwable flange for superior mechanical stability
- Quick and convenient testing using integrated test option




## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 017918 110062 |
| GTIN | 4017918110062 |
| Weight per Piece (excluding packing) | 12.200 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Length [ l ] | 20.8 mm |
| Width [ w ] | 56.11 mm |
| Height [ h ] | 12.4 mm |
| Pitch | 3.81 mm |

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## Technical data

### Dimensions

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

### General

| | |
|---|---|
| Range of articles | FK-MCP 1,5/..-STF |
| 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 mm² |
| Maximum load current | 8 A (with 1.5 mm² 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 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 0.75 mm² |
| 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 |

### Specifications for ferrules

| | |
|---|---|
| Recommended crimping pliers | 1212034 CRIMPFOX 6 |
| Ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.25 mm²; Length: 7 mm |

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## Technical data

### Specifications for ferrules

| | |
|---|---|
| | Cross section: 0.34 mm²; Length: 7 mm |
| | Cross section: 0.5 mm²; Length: 8 mm ... 10 mm |
| | Cross section: 0.75 mm²; Length: 8 mm ... 10 mm |
| | Cross section: 1 mm²; Length: 8 mm ... 10 mm |
| | Cross section: 1.5 mm²; Length: 10 mm |

### Standards and Regulations

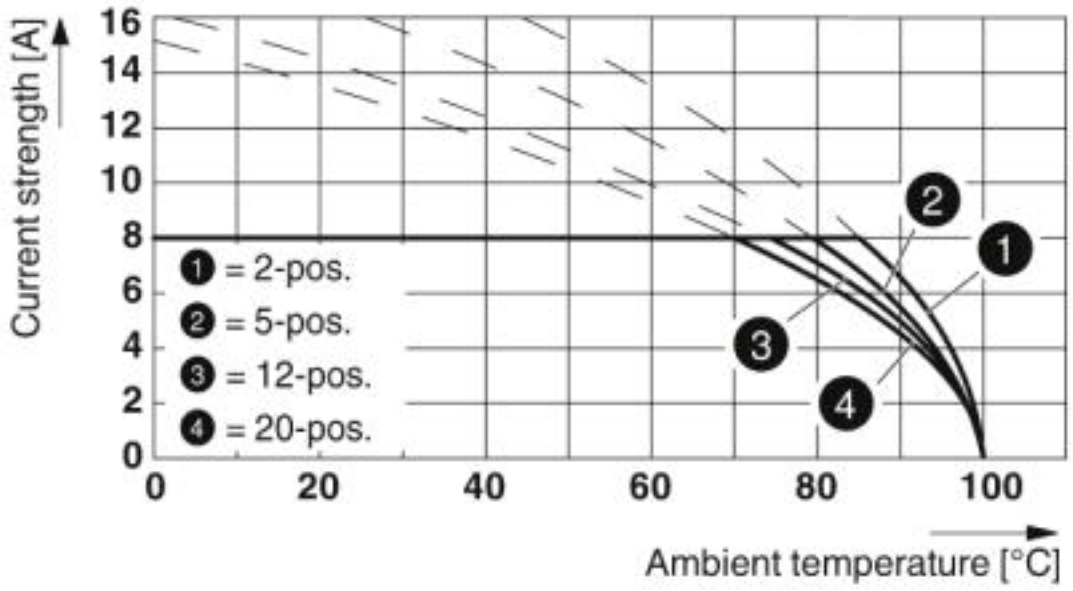
| | |
|---|---|
| Connection in acc. with standard | EN-VDE |
| | CSA |
| Flammability rating according to UL 94 | V0 |

### Environmental Product Compliance

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

## Drawings

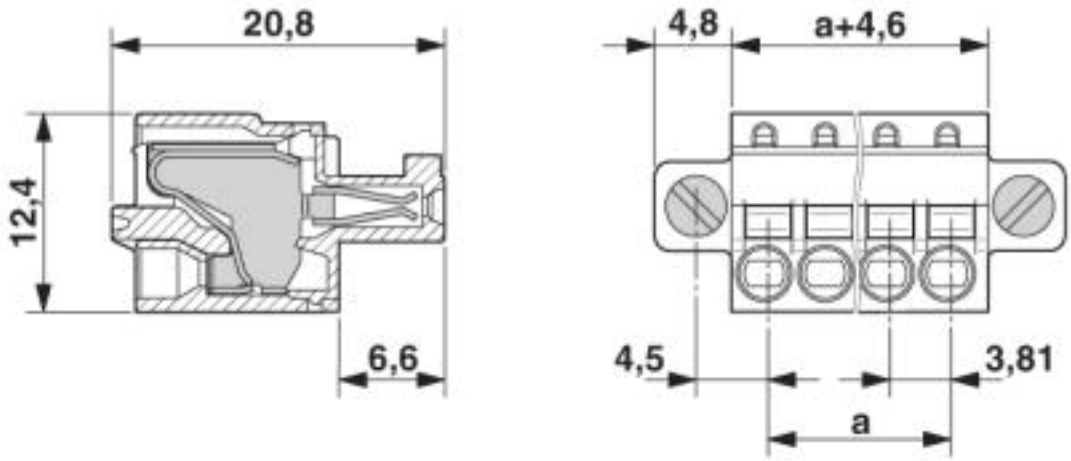
Diagram




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

# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

Dimensional drawing




## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| 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 |
| ETIM 7.0 | EC002638 |

### UNSPSC

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

# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

## Approvals

### Approvals

Approvals

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

Ex Approvals

## Approval details

| | | | |
|---|---|---|---|
| CSA |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |

| | |
|---|---|
| | B |
| Nominal voltage UN | 300 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 28-16 |

| | | | |
|---|---|---|---|
| IECEE CB Scheme |  | http://www.iecee.org/ | DE1-60987-B1B2 |

| | |
|---|---|
| | |
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 0.2-1.5 |

| | | | |
|---|---|---|---|
| VDE Gutachten mit Fertigungsüberwachung |  | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40011723 |

| | |
|---|---|
| | |
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 0.2-1.5 |

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

# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

## Approvals

| | | | |
|---|---|---|---|
| cULus Recognized | c UL us | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19920306 |

| | B |
|---|---|
| Nominal voltage UN | 300 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 28-16 |

## 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

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 size: 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 - FK-MCP 1,5/12-STF-3,81 - 1851339

## Accessories

Printed-circuit board connector - MCV 1,5/12-GF-3,81 P14 THR - 1707311

PCB headers, nominal current: 8 A, 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”

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Printed-circuit board connector - MCV 1,5/12-GF-3,81 P26 THR - 1707735

PCB headers, nominal current: 8 A, 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”

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Feed-through header - MCV 1,5/12-GF-3,81 P26 THRR72 - 1713444

PCB headers, nominal current: 8 A, 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”

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Printed-circuit board connector - MC 1,5/12-GF-3,81 P20 THRR72 - 1782129

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering

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Feed-through header - SMC 1,5/12-GF-3,81 - 1827525

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

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# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

## Accessories

Printed-circuit board connector - MC 1,5/12-GF-3,81 - 1827965

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Feed-through header - MCD 1,5/12-GF-3,81 - 1830208

PCB headers, nominal current: 8 A, 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.

Feed-through header - MCDV 1,5/12-GF-3,81 - 1830350

PCB headers, nominal current: 8 A, 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.

Feed-through header - MCV 1,5/12-GF-3,81 - 1830693

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Feed-through header - MCDV 1,5/12-G1F-3,81 - 1842869

PCB headers, nominal current: 8 A, 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.

# Printed-circuit board connector - FK-MCP 1,5/12-STF-3,81 - 1851339

## Accessories

Printed-circuit board connector - MCD 1,5/12-G1F-3,81 - 1843017

PCB headers, nominal current: 8 A, 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.

Feed-through header - EMCV 1,5/12-GF-3,81 - 1879382

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Feed-through header - EMC 1,5/12-GF-3,81 - 1897047

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Feed-through header - MC 1,5/12-GF-3,81 THT - 1909139

PCB headers, number of positions: 12, pitch: 3.81 mm, color: black, User information and design recommendations for through hole reflow technology can be found under “Downloads”

Feed-through header - MC 1,5/12-GF-3,81 THT-R72 - 1996634

PCB headers, number of positions: 12, pitch: 3.81 mm, color: black, User information and design recommendations for through hole reflow technology can be found under “Downloads”

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