

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

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



## Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 110062
GTIN	4017918110062
Weight per Piece (excluding packing)	11.580 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
Dimension a	41.91 mm

### General

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

## Technical data

### General

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

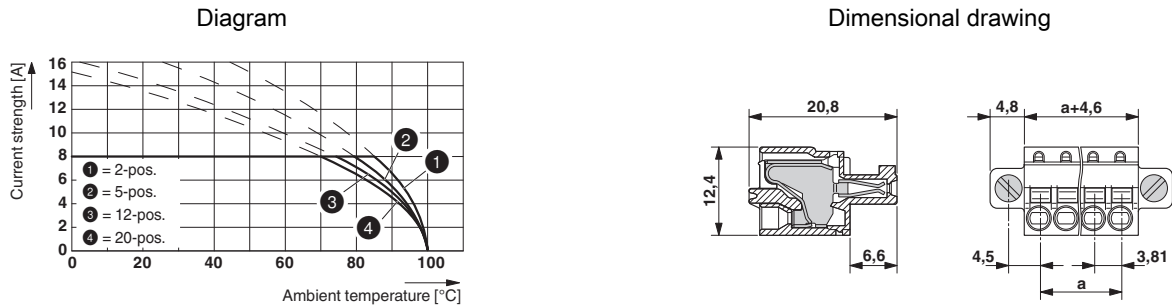
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

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

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

## 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

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 / IECCEB CB Scheme / CCA / cULus Recognized / EAC

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

## Approvals

Ex Approvals

### Approval details

CSA		13631
		B
mm <sup>2</sup> /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
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	

CCA			CCA/ DE1 34219
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	

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
mm <sup>2</sup> /AWG/kcmil		28-16	
Nominal current I <sub>N</sub>		8 A	
Nominal voltage U <sub>N</sub>		300 V	

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

### Approvals

EAC



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 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

Base strip - MCV 1,5/12-GF-3,81 P14 THR - 1707311



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"

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

### Accessories

Housing - MCV 1,5/12-GF-3,81 P26 THR - 1707735

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-GF-3,81 P26 THRR72 - 1713444

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"



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

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



Base strip - SMC 1,5/12-GF-3,81 - 1827525

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 - MC 1,5/12-GF-3,81 - 1827965

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-STF-3,81 - 1851339

### Accessories

#### Base strip - MCD 1,5/12-GF-3,81 - 1830208



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-GF-3,81 - 1830350



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 - MCV 1,5/12-GF-3,81 - 1830693



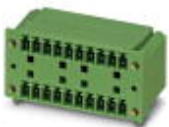
Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12, pitch: 3.81 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Base strip - MCDV 1,5/12-G1F-3,81 - 1842869



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.

#### Housing - MCD 1,5/12-G1F-3,81 - 1843017



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.

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

### Accessories

Base strip - EMCV 1,5/12-GF-3,81 - 1879382

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



Base strip - EMC 1,5/12-GF-3,81 - 1897047

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-GF-3,81 THT - 1909139

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-GF-3,81 THT-R72 - 1996634



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"



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