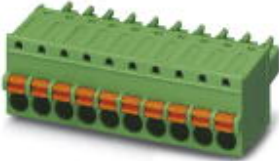


Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

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PCB connector, 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

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
- ✓ 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 pc
GTIN	
GTIN	4017918109745
Weight per Piece (excluding packing)	5.920 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length [l]	21 mm
Width [w]	23.65 mm
Height [h]	12.4 mm
Pitch	3.81 mm

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Technical data

Dimensions

Dimension a	19.05 mm
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General

Range of articles	FK-MCP 1,5/...-ST
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 ²
Maximum load current	8 A (with 1.5 mm ² 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 ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.75 mm ²
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 mm ² ; Length: 7 mm ... 9 mm

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Technical data

Specifications for ferrules

	Cross section: 0.34 mm²; Length: 7 mm ... 9 mm
	Cross section: 0.5 mm²; Length: 8 mm ... 9 mm
	Cross section: 0.75 mm²; Length: 8 mm ... 9 mm
	Cross section: 1 mm²; Length: 8 mm ... 9 mm
	Cross section: 1.5 mm²; Length: 8 mm ... 9 mm

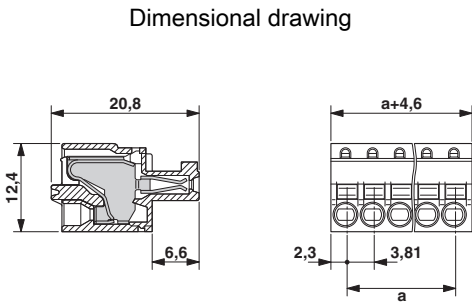
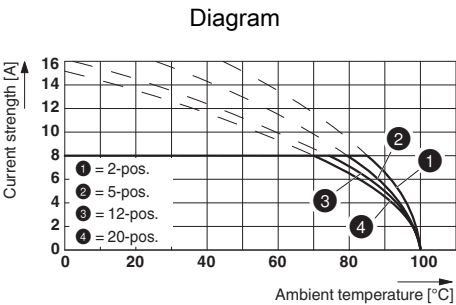
Standards and Regulations

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



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	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Classifications

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 / IECEx CB Scheme / cULus Recognized / EAC

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	

VDE Gutachten mit Fertigungsüberwachung		http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40011723
Nominal voltage UN		160 V	

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Approvals

Nominal current I _N	8 A
mm ² /AWG/kcmil	0.2-1.5

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-60987-B1B2
Nominal voltage U _N	160 V		
Nominal current I _N	8 A		
mm ² /AWG/kcmil	0.2-1.5		

cULus Recognized	cULus	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19920306
	B		
Nominal voltage U _N	300 V		
Nominal current I _N	8 A		
mm ² /AWG/kcmil	28-16		

EAC	EAC		B.01742
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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/ 6-ST-3,81 - 1851083

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 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

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, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm

Test plug terminal block

Test plugs - MPS-MT 1-S - 1944372



, rated voltage (III/2): , nominal current (Ex): , nominal voltage (Ex): , number of positions: 1, pitch: 0 mm, : , mounting: ,

Additional products

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Accessories

Feed-through header - MCV 1,5/ 6-G-3,81 P14 THR - 1707049



PCB headers, 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"

Feed-through header - MCV 1,5/ 6-G-3,81 P26 THR - 1707463



PCB headers, 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"

Feed-through header - MCV 1,5/ 6-G-3,81 P26 THRR56 - 1712911



PCB headers, 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"

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



PCB headers, 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

Printed-circuit board connector - MC 1,5/ 6-G-3,81 - 1803316



PCB headers, 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 - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Accessories

Printed-circuit board connector - MCV 1,5/ 6-G-3,81 - 1803468



PCB headers, 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 - SMC 1,5/ 6-G-3,81 - 1827318



PCB headers, 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

Feed-through header - MCD 1,5/ 6-G-3,81 - 1829992



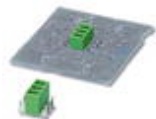
PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Feed-through header - MCDV 1,5/ 6-G-3,81 - 1830444



PCB headers, 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.

Feed-through header - MCVDU 1,5/ 6-G-3,81 - 1837476

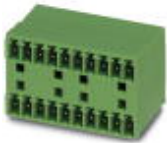


PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Accessories

Printed-circuit board connector - MCD 1,5/ 6-G1-3,81 - 1843114



PCB headers, 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.

Feed-through header - MCDV 1,5/ 6-G1-3,81 - 1847767



PCB headers, 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.

Feed-through header - EMCV 1,5/ 6-G-3,81 - 1860689



PCB headers, 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

Feed-through header - MCO 1,5/ 6-GR-3,81 - 1861688



PCB headers, 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

Feed-through header - MCO 1,5/ 6-GL-3,81 - 1861769



PCB headers, 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 - FK-MCP 1,5/ 6-ST-3,81 - 1851083

Accessories

Feed-through header - EMC 1,5/ 6-G-3,81 - 1897843

PCB headers, 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



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