Printed-circuit board connector - FK-MC 0,5/ 3-ST-2,5 - 1881338

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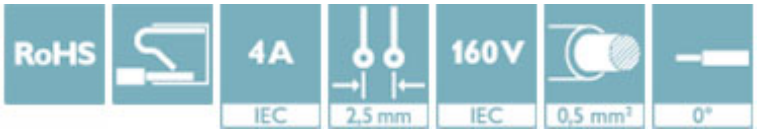
The figure shows a 10-position version of the product

Plug component, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin

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	50 STK
Minimum order quantity	50 STK
GTIN	4 017918 156589
GTIN	4017918156589
Weight per Piece (excluding packing)	1.820 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length [l]	19.05 mm
Width [w]	8.1 mm
Height [h]	11.75 mm
Pitch	2.5 mm
Dimension a	5 mm

General

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Technical data

General

Range of articles	FK-MC 0,5/..-ST
Insulating material group	I
Rated surge voltage (III/3)	1.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	4 A
Nominal voltage U_N	100 V
Nominal cross section	0.5 mm²
Insulating material	PA
Flammability rating according to UL 94	V0
Stripping length	8 mm
Number of positions	3

Connection data

Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	0.5 mm²
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	0.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	20
Minimum AWG according to UL/CUL	28
Maximum AWG according to UL/CUL	20

Standards and Regulations

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

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C (dependent on the derating curve)

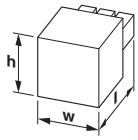
Environmental Product Compliance

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

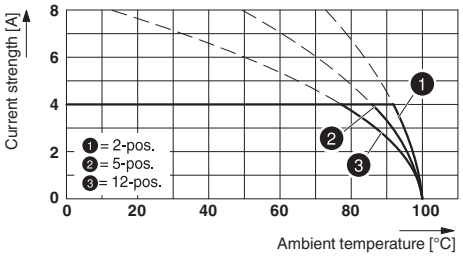
Drawings

Printed-circuit board connector - FK-MC 0,5/ 3-ST-2,5 - 1881338

Dimensional drawing

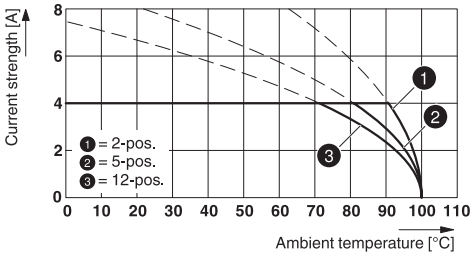


Diagram



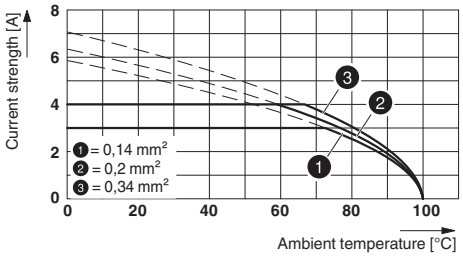
Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5

Diagram



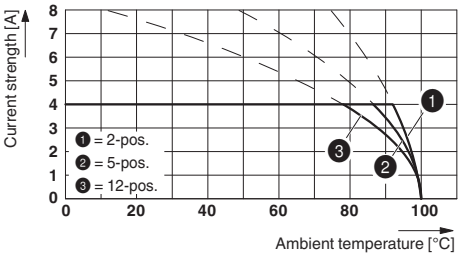
Type: FK-MC 0,5/...-ST-2,5 with MCD 0,5/...-G1-2,5 HT BK

Diagram



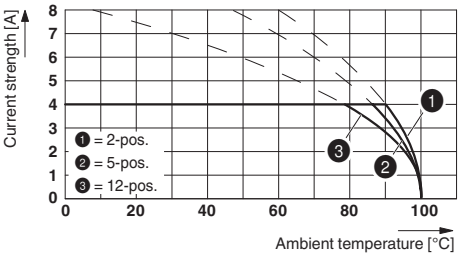
Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5

Diagram



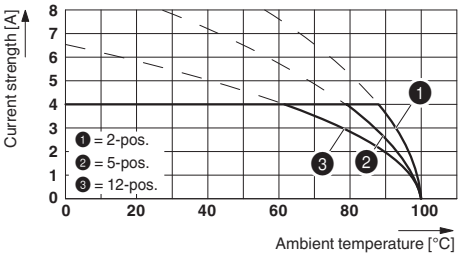
Type: FK-MC 0,5/...-ST-2,5 with MCV 0,5/...-G-2,5 THT

Diagram



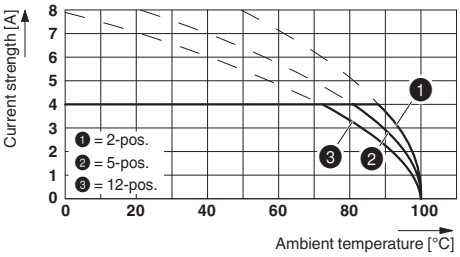
Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5 THT

Diagram



Type: FK-MC 0,5/...-ST-2,5 with MCD 0,5/...-G1-2,5

Diagram



Type: FK-MC 0,5/...-ST-2,5 with MCDV 0,5/...-G1-2,5

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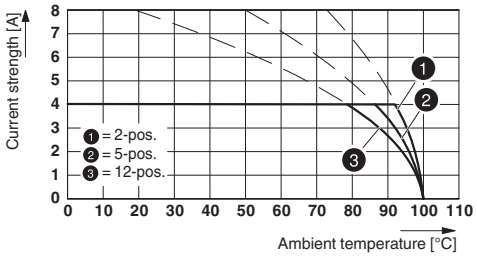
Diagram



Type: FK-MC 0,5/...-ST-2,5 with MCV 0,5/...-G-2,5

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	EC002637
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

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECEE CB Scheme / CCA / EAC / cULus Recognized

Ex Approvals

Printed-circuit board connector - FK-MC 0,5/ 3-ST-2,5 - 1881338

Approvals

Approval details

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425

	B
mm²/AWG/kcmil	28-20
Nominal current IN	4 A
Nominal voltage UN	125 V

VDE Gutachten mit Fertigungsüberwachung	http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx	40013394

mm²/AWG/kcmil	0.2-0.5
Nominal current IN	4 A
Nominal voltage UN	100 V

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425

	B
mm²/AWG/kcmil	28-20
Nominal current IN	4 A
Nominal voltage UN	125 V

IECEE CB Scheme	http://www.iecee.org/	DE1-56068-B1B2

mm²/AWG/kcmil	0.2-0.5
Nominal current IN	4 A
Nominal voltage UN	100 V

CCA	CCA/ DE1 34250

mm²/AWG/kcmil	0.2-0.5
Nominal current IN	4 A
Nominal voltage UN	100 V

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Approvals

EAC		B.01742

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

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 2,54/2,8:FORTL.ZAHLEN - 0804853

Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 99, Mounting type: adhesive, for terminal block width: 2.54 mm, Lettering field: 2.54 x 2.8 mm

Screwdriver tools

Screwdriver - SZS 0,4X2,0 - 1205202

Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

Additional products

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Accessories

Base strip - MC 0,5/ 3-G-2,5 - 1881451

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, Color: green, contact surface: Tin, mounting: Wave soldering

Base strip - MCV 0,5/ 3-G-2,5 - 1881561

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, Color: green, contact surface: Tin, mounting: Wave soldering

Base strip - MCD 0,5/ 3-G1-2,5 - 1894817

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, Color: green, contact surface: Tin, mounting: Wave soldering

Base strip - MCDV 0,5/ 3-G1-2,5 - 1894927

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, Color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - MCD 0,5/ 3-G1-2,5 HT BK - 1961151

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 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".

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Accessories

Printed-circuit board connector - MCDV 0,5/ 3-G1-2,5 HT BK - 1961258

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 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".

Printed-circuit board connector - MC 0,5/ 3-G-2,5 THT - 1963434

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 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 0,5/ 3-G-2,5 THT - 1963544

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 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 0,5/ 3-G-2,5 THT R44 - 1963654

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 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 0,5/ 3-G-2,5 THT R44 - 1963764

Header, nominal current: 4 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.5 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads"