

Printed-circuit board connector - MCVR 1,5/ 6-ST-3,81 - 1827169

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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: Screw connection with tension sleeve, color: green, contact surface: Tin


The figure shows a 10-position version of the product

Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 114305
GTIN	4017918114305
Weight per Piece (excluding packing)	4.740 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length [l]	10.4 mm
Width [w]	23.35 mm
Height [h]	19.1 mm
Pitch	3.81 mm
Dimension a	19.05 mm

General

Range of articles	MCVR 1,5/...-ST
Type of contact	Female connector

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Technical data

General

Number of positions	6
Connection method	Screw connection with tension sleeve
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	7 mm
Screw thread	M2
Tightening torque, min	0.22 Nm
Tightening torque max	0.25 Nm

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.	0.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
2 conductors with same cross section, solid min.	0.08 mm ²
2 conductors with same cross section, solid max.	0.5 mm ²
2 conductors with same cross section, stranded min.	0.08 mm ²
2 conductors with same cross section, stranded max.	0.75 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.34 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²

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Technical data

Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	14

Standards and Regulations

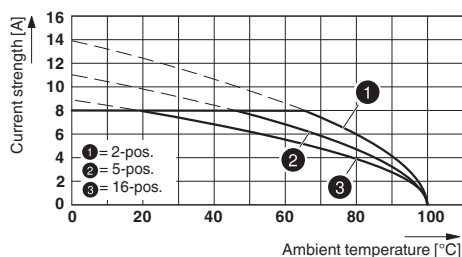
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

Environmental Product Compliance

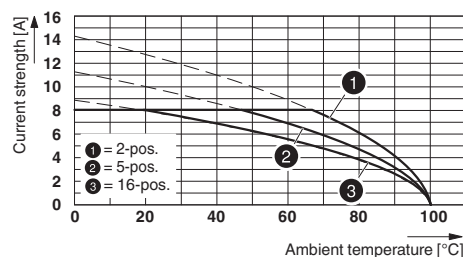
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Diagram



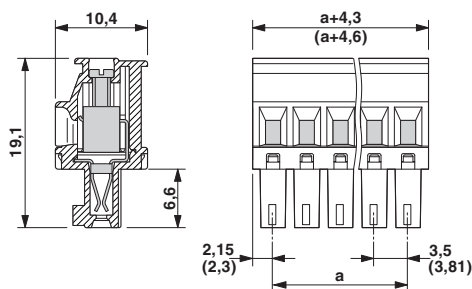
Diagram



Type: MCVR 1,5/...-ST-3,81 with MCDV 1,5/...-G-3,81

Type: MCVR 1,5/...-ST-3,81 with MCD 1,5/...-G-3,81

Dimensional drawing



Approvals

Approvals

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Approvals

Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized / EAC

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
		D	B
Nominal voltage UN		300 V	300 V
Nominal current IN		8 A	8 A
mm ² /AWG/kcmil		28-16	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	
Nominal current IN		8 A	
mm ² /AWG/kcmil		0.2-1.5	

IECEE CB Scheme		http://www.iecee.org/	DE1-60604-B1B2
Nominal voltage UN		160 V	
Nominal current IN		8 A	
mm ² /AWG/kcmil		0.2-1.5	

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110128
		D	B
Nominal voltage UN		300 V	300 V
Nominal current IN		8 A	8 A
mm ² /AWG/kcmil		30-14	30-14

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Approvals

EAC		B.01742
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Accessories

Accessories

Bridge

Insertion bridge - EBPL 2-3,81 - 1733495



Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

Insertion bridge - EBPL 3-3,81 - 1733505



Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

Insertion bridge - EBPL 4-3,81 - 1733518



Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

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

Marker pen

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Accessories

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 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

Additional products

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"

Printed-circuit board connector - MCVR 1,5/ 6-ST-3,81 - 1827169

Accessories

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 - 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

Printed-circuit board connector - MCVR 1,5/ 6-ST-3,81 - 1827169

Accessories

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 - 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.

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Accessories

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

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

Feed-through header - MC 1,5/ 6-G-3,81 THT - 1908800



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 - MCVR 1,5/ 6-ST-3,81 - 1827169

Accessories

Feed-through header - MC 1,5/ 6-G-3,81 THT-R56 - 1943797



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 - MCD 1,5/ 6-G1-3,81 HT BK - 1958368



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, 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".
