

1827295

https://www.phoenixcontact.com/in/products/1827295

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SMC 1,5/..-G, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known mounting principle allows worldwide use
- · Angled connection enables multi-row arrangement on the PCB
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies



1827295

https://www.phoenixcontact.com/in/products/1827295

Commercial Data

Order Key	1827295
Packing unit	250 pc
Minimum order quantity	250 pc
Sales Key	AAA
Product Key	AABSSA
Catalog Page	Page 228 (C-1-2013)
GTIN	4017918114411
Weight per Piece (including packing)	1.2 g
Weight per Piece (excluding packing)	1.2 g
Customs tariff number	85366930
Country of origin	DE



1827295

https://www.phoenixcontact.com/in/products/1827295

Technical Data

Product properties

Туре	Standard
Number of positions	4
Number of connections	4
Number of rows	1
Connector system	MINI COMBICON
Mounting flange	without
Number of potentials	4
Pin layout	Linear pinning

Electrical properties

Maximum load current	8 A
Rated voltage (II/2)	320 V
Rated voltage (III/2)	160 V
Rated surge voltage (II/2)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (III/3)	2.5 kV
Nominal voltage U _N	160 V
Nominal current I _N	8 A
Nominal current I _N	8 A

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions



1827295

https://www.phoenixcontact.com/in/products/1827295

Dimensional drawing	P ₁ ^A
Width	16.63 mm
Height	14.4 mm
Installed height	11 mm
Length of the solder pin	3.4 mm
Length	13.1 mm
Length of the solder pin	3.4 mm
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm
Pitch	3.81 mm
Mechanical tests Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	$0.14 \text{ mm}^2 / \text{ solid } / > 10 \text{ N}$
	0.14 mm² / flexible / > 10 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	4 N

1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N

Torque test

Specification	IEC 60999-1:1999-11
---------------	---------------------

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Result	Test passed
Test force per pos.	22 N

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding



1827295

https://www.phoenixcontact.com/in/products/1827295

Specification	IEC 60512-13-5:2006-02
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Pine view desid	
Dimension check	IEC 00540 4 0:0000 00
Specification Result	IEC 60512-1-2:2002-02
Result	Test passed
ectrical tests	
Electrical properties	
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Contact resistance	1.7 mΩ
Pollution degree	2
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
30.000	
minimum creepage distance (III/2)	1.5 mm
minimum creepage distance (III/2) Rated insulation voltage (II/2)	1.5 mm 320 V
Rated insulation voltage (II/2)	320 V

Environmental and real-life conditions

Vibration test



1827295

https://www.phoenixcontact.com/in/products/1827295

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h
Durability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	1.7 mΩ
Contact resistance R ₂	1.8 mΩ
Insertion/withdrawal cycles	25
Climatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV
Ambient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
ckaging specifications	
	packed in cardboard
Type of packaging	раскей іп сагороаго

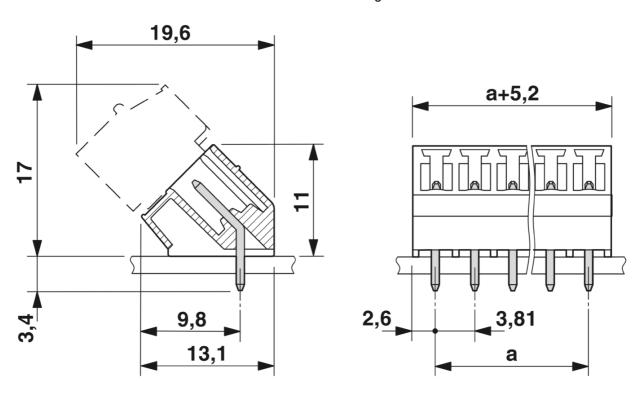


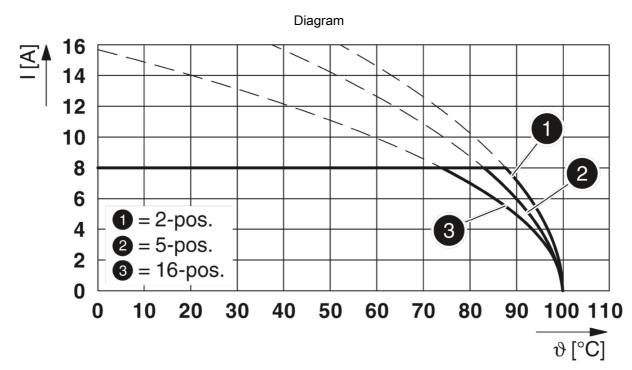
1827295

https://www.phoenixcontact.com/in/products/1827295

Drawings

Dimensional drawing

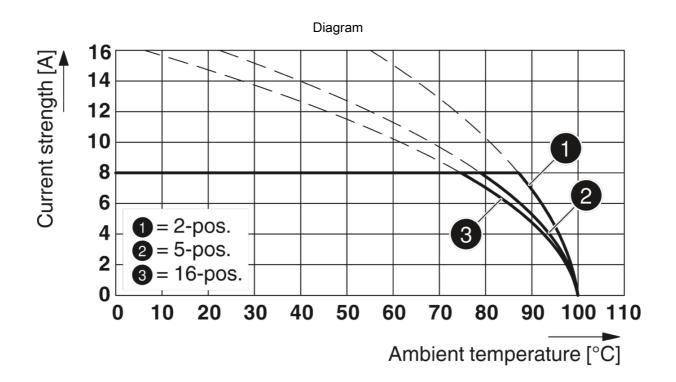


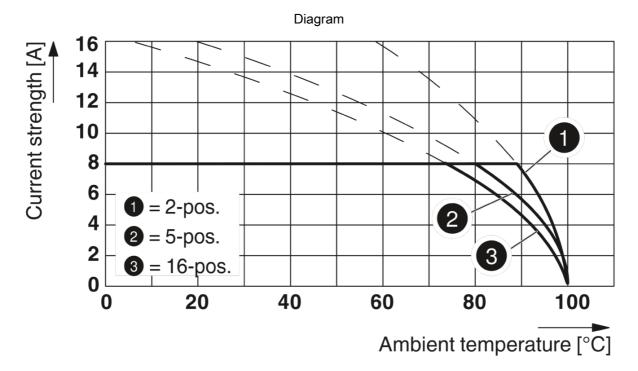




1827295

https://www.phoenixcontact.com/in/products/1827295

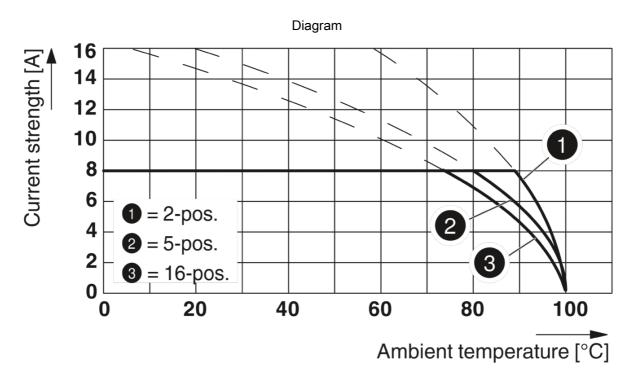




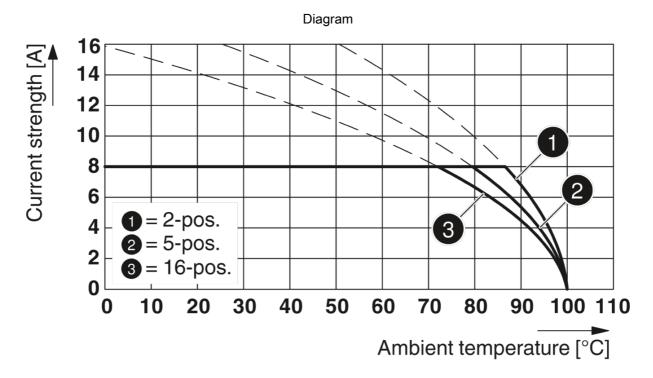


1827295

https://www.phoenixcontact.com/in/products/1827295



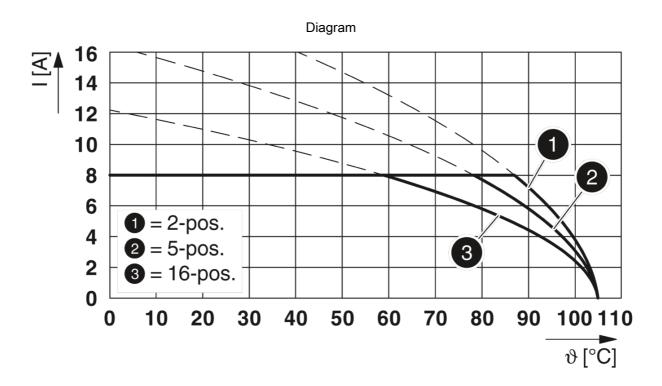
Type: FRONT-MC 1,5/...-ST-3,81 with SMC 1,5/...-G-3,81



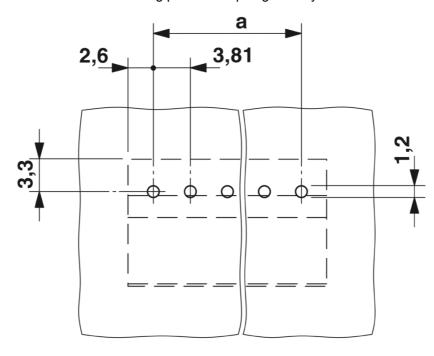


1827295

https://www.phoenixcontact.com/in/products/1827295



Drilling plan/solder pad geometry





1827295

https://www.phoenixcontact.com/in/products/1827295

Approvals

CSA @	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	300 V	8 A	-	-
Use group D				
	300 V	8 A	-	-

IECEE CB Scheme	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	160 V	8 A	-	-

EAC III

cULus Recognized	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	300 V	8 A	-	-
Use group D				
	300 V	8 A	-	-

VDE Gutachten mit Fertigungsüberwachung	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	160 V	8 A	-	-



1827295

https://www.phoenixcontact.com/in/products/1827295

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-9.0	27440402	
	ECLASS-10.0.1	27440402	
	ECLASS-11.0	27460201	
ETIM			
	ETIM 6.0	EC002637	
UNSPSC			
	UNSPSC 19.0	39121409	
	UNSPSC 20.0	39121409	

39121409



1827295

https://www.phoenixcontact.com/in/products/1827295

Environmental Product Compliance

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



1827295

https://www.phoenixcontact.com/in/products/1827295

Accessories

Marker card

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



Marker card, Card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots (99)100, mounting type: adhesive, for terminal block width: 3. 81 mm, lettering field size: 3.81 x 2.8 mm

Marker card

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600



1827295

https://www.phoenixcontact.com/in/products/1827295

Marker pen

Marker pen - B-STIFT - 1051993



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

Printed-circuit board connector

Printed-circuit board connector - FMC 1,5/4-ST-3,81 - 1745917



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FMC 1,5/..-ST, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard



1827295

https://www.phoenixcontact.com/in/products/1827295

Printed-circuit board connector

Printed-circuit board connector - MC 1,5/4-ST-3,81 - 1803594



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Printed-circuit board connector

Printed-circuit board connector - MCVW 1,5/4-ST-3,81 - 1826995



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCVW 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard



1827295

https://www.phoenixcontact.com/in/products/1827295

Printed-circuit board connector

Printed-circuit board connector - MCVR 1,5/4-ST-3,81 - 1827143



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCVR 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Printed-circuit board connector

Printed-circuit board connector - FRONT-MC 1,5/ 4-ST-3,81 - 1850686



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FRONT-MC 1,5/..-ST, pitch: 3.81 mm, connection method: Front screw connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard



1827295

https://www.phoenixcontact.com/in/products/1827295

Printed-circuit board connector

Printed-circuit board connector - FK-MCP 1,5/4-ST-3,81 - 1851067



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FK-MCP 1,5/..-ST, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Printed-circuit board connector

Printed-circuit board connector - MCC 1/4-STZ-3,81 - 1852192



PCB connector, nominal cross section: 1 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCC 1/..-STZ, pitch: 3.81 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 5A/MCC-MT 0,2-0,35 (1859988); 8A/MCC-MT 0,5-1,0 (1859991)



1827295

https://www.phoenixcontact.com/in/products/1827295

Printed-circuit board connector

Printed-circuit board connector - QC 0,5/4-ST-3,81 - 1897416



PCB connector, nominal cross section: 0.5 mm², color: green, nominal current: 6 A, rated voltage (III/2): 200 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: QC 0,5/..-ST, pitch: 3.81 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Coding profile

Coding profile - CP-MSTB - 1734634

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



Phoenix Contact 2022 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in

单击下面可查看定价,库存,交付和生命周期等信息

>>Phoenix Contact(菲尼克斯)