

1832798

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DIN rail connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Pin, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: MCVK 1,5/..-G, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: DIN rail mounting, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies
- · Direct plug-in block for DIN rail mounting
- · For mounting on a DIN rail NS 15
- · Well-known connection principle allows worldwide use

Commercial data

Item number	1832798
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABMAA
GTIN	4017918110390
Weight per piece (including packing)	11.64 g
Weight per piece (excluding packing)	10.753 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	DIN rail connector
Product family	MCVK 1,5/G
Product line	COMBICON Connectors S
Туре	DIN rail mounting
Number of positions	8
Pitch	3.81 mm
Number of connections	8
Number of rows	1
Number of potentials	8
Mounting flange	without

Electrical properties

Properties

Nominal current I_N 8 ANominal voltage U_N 160 VContact resistance3.3 mΩRated voltage (III/3)160 VRated surge voltage (III/3)2.5 kVRated voltage (III/2)160 VRated voltage (VIII/2)2.5 kVRated surge voltage (III/2)320 VRated surge voltage (III/2)2.5 kV	•	
Contact resistance 3.3 mΩ Rated voltage (III/3) 160 V Rated surge voltage (III/3) 2.5 kV Rated voltage (III/2) 160 V Rated surge voltage (III/2) 2.5 kV Rated voltage (III/2) 320 V	Nominal current I _N	8 A
Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) 2.5 kV Rated voltage (III/2) 320 V	Nominal voltage U _N	160 V
Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 2.5 kV Rated voltage (III/2) 320 V	Contact resistance	$3.3~\text{m}\Omega$
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 320 V	Rated voltage (III/3)	160 V
Rated surge voltage (III/2) Rated voltage (II/2) 2.5 kV Rated voltage (II/2) 320 V	Rated surge voltage (III/3)	2.5 kV
Rated voltage (II/2) 320 V	Rated voltage (III/2)	160 V
	Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2) 2.5 kV	Rated voltage (II/2)	320 V
	Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	DIN rail mounting
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Pin

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.5 mm ²
2 conductors with same cross section, solid	0.14 mm² 0.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.5 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	7 mm
Drive form screw head	Slotted (L)
Tightening torque	0.22 Nm 0.25 Nm

Mounting

Mounting type	DIN rail mounting

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 terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 µm Ni)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

Dimensions



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Dimensional drawing	ph h
Pitch	3.81 mm
Width [w]	31.87 mm
Height [h]	24.2 mm
Length [I]	27.21 mm
Installed height	24.2 mm
echanical 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	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	4 N
Torque test	
Specification	IEC 60999-1:1999-11
Contact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02

Visual inspection



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Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Dimension check Specification	IEC 60512-1-2:2002-02

Electrical tests

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	T
Comparative tracking index (IEC 60112)	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 mm
Note on connection cross section	With connected conductor 1.5 mm² (stranded).
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
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test



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Type of packaging

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	3.3 mΩ
Contact resistance R ₂	$3.3~\text{m}\Omega$
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1}$ cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
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packed in cardboard

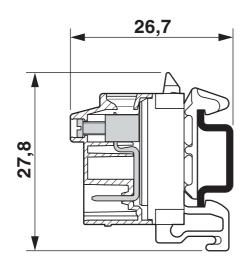


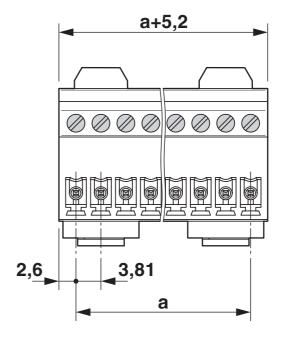
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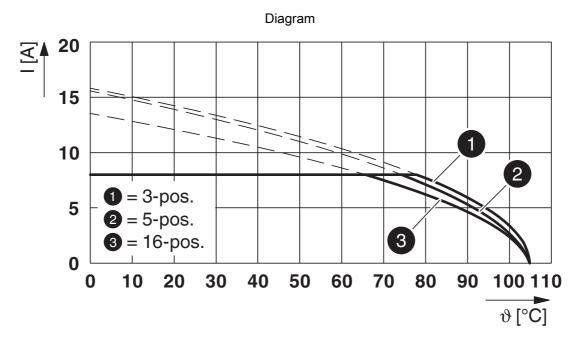


Drawings

Dimensional drawing







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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1832798

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	8 A	28 - 16	-

c 711 us	cULus Recogniz Approval ID: E60425-	z ed 20110128			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use grou	ір В				
		300 V	8 A	30 - 14	-



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Classifications

ECLASS-13.0	27250117
ECLASS-15.0	27250117
ETIM	
ETIM 9.0	EC001284
UNSPSC	

ECLASS

Ε U UNSPSC 21.0 39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	0.133 kg CO2e

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