

1763290

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PCB direct plug, nominal cross section: 1 mm², color: green, nominal current: 8 A, rated voltage (III/2): 200 V, contact surface: Tin, type of contact: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: ZEC 1,0/..-ST, pitch: 3.5 mm, connection method: Spring-cage connection, mounting: Direct plug-in method, conductor/PCB connection direction: 0 °, plug-in system: ZEC, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

Your advantages

- Defined contact force ensures that contact remains stable over the long term
- · Inexpensive direct plug-in connection with just one component
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Plug-in direction parallel to the PCB

Commercial Data

Item number	1763290
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAB
Product Key	AABEAA
GTIN	4046356410106
Weight per Piece (including packing)	11.977 g
Weight per Piece (excluding packing)	11.8 g
Customs tariff number	85366930
Country of origin	GR



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Technical Data

Product properties

Product line	COMBICON Connectors S
Product type	PCB direct plug
Product family	ZEC 1,0/ST
Number of positions	10
Pitch	3.5 mm
Number of connections	10
Number of rows	1
Mounting flange	without
Number of potentials	10

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	200 V
Degree of pollution	3
Contact resistance	1.3 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	200 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	Direct plug connector
Connector system	ZEC
Nominal cross section	1 mm²
Type of contact	Socket

Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

Conductor connection

Connection method	Spring-cage connection
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	0.2 mm² 1 mm²
Conductor cross section flexible	0.2 mm² 1 mm²
Conductor cross section AWG	24 16



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.5 mm²
Stripping length	7 mm
lounting	
Mounting type	Direct plug-in method
laterial 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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)
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
Material data – actuating element	
Color ()	0
otes	
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.
imensions	
Dimensional drawing	h



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Pitch	3.5 mm
Installed height	18 mm
echanical tests	
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1990-05
Result	Test passed
Repeated connection and disconnection	
Specification	IEC 60999-1:1990-05
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1990-05
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	1 mm² / solid / > 35 N
	1 mm² / flexible / > 35 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	20
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	3 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Nieural incorpetion	
Visual inspection	IEC 60512 2:4095 00
Specification Result	IEC 60512-2:1985-00 Test passed
result	rest passed
Dimension check	
Specification	IEC 60512-2:1985-00
Result	Test passed
ectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
Insulation resistance	
Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	10 ¹¹ Ω



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Air	clearances	and	creepage	distances I	ı

The olderanded and discipliness p		
Specification	IEC 60664-1:2007-04	
Insulating material group	I I	
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	
Rated insulation voltage (III/2)	200 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 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-5:1992-08
Contact resistance R ₁	1.3 mΩ
Contact resistance R ₂	2 mΩ
Insertion/withdrawal cycles	20

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm³/40 °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



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Packaging specifications

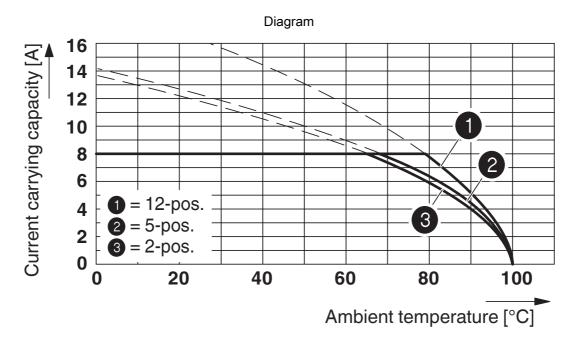
Type of packaging packed in cardboard



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Drawings



Type: ZEC 1,0/...-ST-3,5

Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram

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Approvals

CB scheme	IECEE CB Scheme Approval ID: DE1-51128					
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²	
		1000 V	10 A	-	-	

EHE	EAC
LIIL	Approval ID: B.01687

c 711 us	cULus Recognized Approval ID: E60425-19941110				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B					
		150 V	8 A	26 - 16	-

₩	VDE Gutachten mit Fertigungsüberwachung Approval ID: 40020343				
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		160 V	8 A	-	0.2 - 1



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Classifications

UNSPSC 21.0

ECLASS

252.65				
	ECLASS-11.0	27460202		
	ECLASS-12.0	27460202		
	ECLASS-13.0	27460202		
ETIM				
	ETIM 8.0	EC002638		
U	UNSPSC			

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Environmental Product Compliance

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

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

+91.1275.71420 info@phoenixcontact.co.in