

1828426

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PCB direct plug, nominal cross section: 1.5 mm², color: black, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: ZEC 1,5/. .-ST, pitch: 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 method: Latching 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	1828426
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACECA
GTIN	4046356872089
Weight per piece (including packing)	10.106 g
Weight per piece (excluding packing)	9.41 g
Customs tariff number	85366930
Country of origin	GR



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Technical data

Product properties

Product type	PCB direct plug
Product family	ZEC 1,5/ST
Product line	COMBICON Connectors S
Number of positions	6
Pitch	5 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Mounting type	without

Electrical properties

Properties

Nominal current I _N	10 A
Nominal voltage U _N	320 V
Contact resistance	1.2 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	Direct plug connector
Connector system	ZEC
Nominal cross section	1.5 mm ²
Contact connection type	Socket

Interlock

Locking type	Snap-in locking
Mounting type	Latching 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 1.5 mm²
Conductor cross-section flexible	0.2 mm ² 1.5 mm ²
Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²



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Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 0.5 mm ²
Stripping length	7 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
and the sa	
unting	
Mounting type	Direct plug-in method
terial specifications	
deterial data contact	
laterial 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)
laterial data - housing	
Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	T
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
res	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have n switching power (COC). During designated use, they must not l plugged in or disconnected when carrying voltage or under load
nensions	
Dimensional drawing	h



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Pitch	5 mm
Installed height	18 mm
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 setpoint/actual value	0.2 mm² / solid / > 10 N
CoppJuotual Talao	0.2 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	20
Insertion strength per pos. approx.	6 N
Withdraw strength per pos. approx.	3 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Visual inspection	
Visual inspection Specification	IEC 60512-2:1985-00
Result	Test passed
result	Test 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 ¹² Ω



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Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration tes

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)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-5:1992-08
Contact resistance R ₁	1.2 mΩ
Contact resistance R ₂	1.5 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	2.21 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

Packaging specifications



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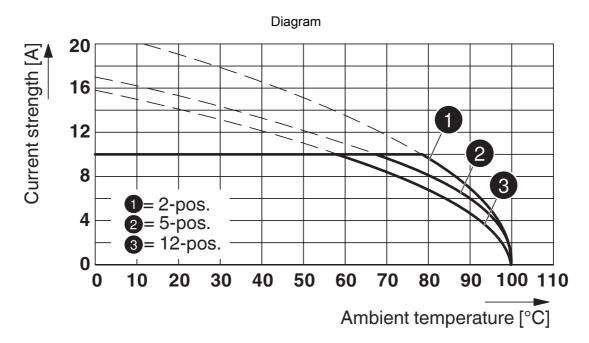
Type of packaging	packed in cardboard



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Drawings



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1828426

cULus Recognized Approval ID: E60425-19941111				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	10 A	26 - 14	-
D				
	300 V	10 A	26 - 14	-

△YDE	VDE report with production monitoring Approval ID: 40020343				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	10 A	-	0.2 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
ETIM			
	ETIM 9.0	EC002638	
UN	ISPSC		

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%	

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