

5435200

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PCB connector, nominal cross section: 1.5 mm², color: signal grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 11, number of rows: 1, number of positions: 11, number of connections: 11, product range: BCP-F, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: BASICLINE 1,5, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

Commercial data

Item number	5435200
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABAYB
GTIN	4046356172028
Weight per piece (including packing)	9 g
Weight per piece (excluding packing)	9 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Product properties

Product type	PCB connector
Product family	BCP-F
Product line	COMBICON Connectors S
Туре	Standard
Number of positions	11
Pitch	3.81 mm
Number of connections	11
Number of rows	1
Number of potentials	11
Mounting type	Screw flange

Electrical properties

Properties

$\begin{array}{llllllllllllllllllllllllllllllllllll$	·	
Contact resistance 2 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) 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	2 mΩ
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 2.5 kV Rated voltage (II/2) 320 V	Rated voltage (III/3)	160 V
Rated surge voltage (III/2) Rated voltage (III/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	Standard
Connector system	BASICLINE 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 1.5 mm²
Conductor cross-section flexible	0.2 mm² 1.5 mm²



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Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
2 conductors with same cross section, solid	0.2 mm ² 0.5 mm ²
2 conductors with same cross section, flexible	0.2 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

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	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)	signal grey (7004)
Insulating material	PA
Insulating material group	I
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

Dimensions

Dimensional drawing	h
Pitch	3.81 mm
Width [w]	52.3 mm
Height [h]	11.1 mm



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Length [I]	16.1 mm
unting	
_	
Flange	224
Tightening torque	0.3 Nm
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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Leading at Middle of Const	
Insertion and withdrawal forces	JEO 00540 7 4000 00
Specification	IEC 60512-7:1993-08
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	4 N
Torque test	
Specification	IEC 60999-1:1999-11
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
result	r est passeu
Polarization and coding	
Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
	. 351 passou
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration test



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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
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2 mΩ
Contact resistance R ₂	2.5 mΩ
Insertion/withdrawal cycles	25
Climatic test	100 0000 1007 00
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
ectrical tests	
ootilooli tooto	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	10 ¹² Ω
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
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)	160 V
Rated surge voltage (III/2)	2.5 kV
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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

Packaging specifications

Type of packaging	packed in cardboard
<i>7</i> 1 1 0 0	

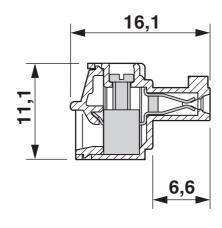


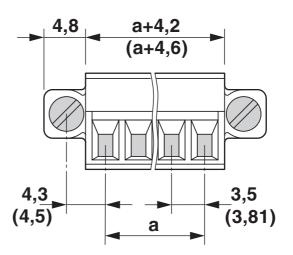
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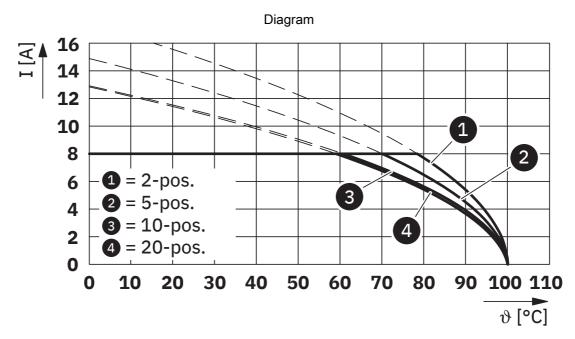


Drawings

Dimensional drawing





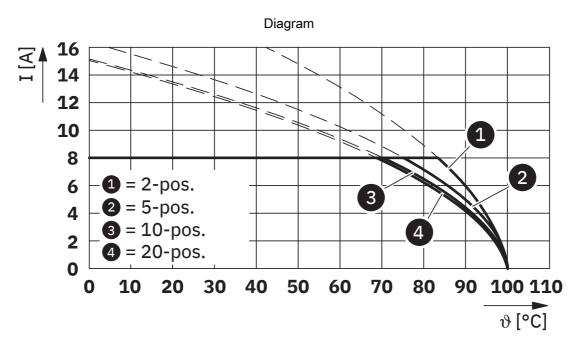


Type: BCP-381F-... with BCH-381HF-...



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Type: BCP-381F-... with BCH-381VF-...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/5435200

c 911 us	CULus Recognized Approval ID: E60425-20071007				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		250 V	8 A	30 - 14	-
D					
		300 V	8 A	30 - 14	-

△YDE	VDE report with production monitoring Approval ID: 40040694				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		160 V	8 A	-	0.2 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460202
	ECLASS-15.0	27460202
ETIM		
	ETIM 9.0	EC002638
U	NSPSC	
	UNSPSC 21.0	39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements Exemption	Yes 6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com