

1922682

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Direct plug-in block, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: PCU 6/..-STD, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Direct mounting, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 16, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Laterally mounted flange for screw connection in the housing or on the mounting panel

Commercial data

Item number	1922682
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA04
Product key	AADMAA
GTIN	4017918817664
Weight per piece (including packing)	68.36 g
Weight per piece (excluding packing)	63.609 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	Direct plug-in block
Product family	PCU 6/STD
Product line	COMBICON Connectors XL
Туре	Direct mounting
Number of positions	7
Pitch	10.16 mm
Number of connections	7
Number of rows	1
Number of potentials	7
Mounting type	without

Electrical properties

Properties

- P	
Nominal current I _N	41 A
Nominal voltage U _N	1000 V
Contact resistance	0.5 mΩ
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV

Connection data

Connection technology

Туре	Direct mounting
Connector system	COMBICON PC 16
Nominal cross section	6 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting type	without

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross-section rigid	0.5 mm ² 10 mm ²
Conductor cross-section flexible	0.5 mm² 6 mm²
Conductor cross-section AWG	20 7



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Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm² 6 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm² 6 mm²
2 conductors with same cross section, solid	0.5 mm² 4 mm²
2 conductors with same cross section, flexible	0.5 mm² 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 4 mm²
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	12 mm
Tightening torque	1.2 Nm 1.5 Nm

Mounting

Mounting type	Direct mounting
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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	completely silver-plated
Metal surface terminal point (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)

Material data - housing

Color (Housing)	green (6021)
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

Notes

General	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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Visual inspection

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Dimensional drawing	
	h
Pitch	10.16 mm
Width [w]	91.28 mm
Height [h]	33.9 mm
Length [I]	32.8 mm
Installed height	34 mm
chanical tests	
onamour tests	
est 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	0.5 mm² / solid / > 20 N
setpoint/actual value	0.5 mm² / flexible / > 20 N
	10 mm² / solid / > 90 N
	6 mm² / flexible / > 80 N
and the second of the second o	
nsertion and withdrawal forces	Test second
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
orque 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	IEC 60069 2 70:4005 42
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
olarization and coding	
Specification	IEC 60512-13-5:2006-02



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Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
result	rest passed
lectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	9
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	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV
- , ,	

Environmental and real-life conditions

minimum creepage distance (II/2)

minimum clearance value - non-homogenous field (II/2)

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

8 mm

8 mm

Dura	bil	lity	test

Durability test	
Specification	IEC 60512-9-1:2010-03



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Type of packaging

mpulse withstand voltage at sea level	9.8 kV
Contact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
imatic 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	4.26 kV
nbient 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

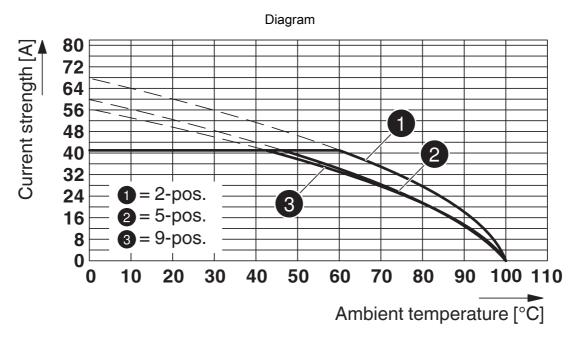
packed in cardboard



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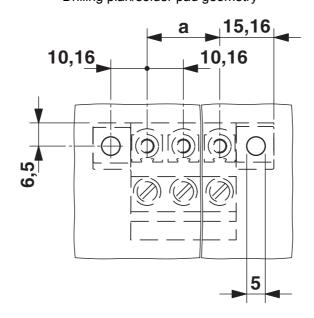


Drawings



Type: PCU 6/...-STD-10,16 with PCV 6-16/...-G1-10,16

Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1922682

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		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		600 V	50 A	20 - 8	-
С					
		600 V	50 A	20 - 8	-



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
ЕТ	TIM		
ETIM			
	ETIM 9.0	EC002638	
UNSPSC			
	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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