

1922637

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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: 2, number of rows: 1, number of positions: 2, number of connections: 2, 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	1922637
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADMAA
GTIN	4017918817688
Weight per piece (including packing)	20.13 g
Weight per piece (excluding packing)	19.237 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	2
Pitch	10.16 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	without

Electrical properties

Properties

Nominal current I_N 41 A Nominal voltage U_N 1000 V Contact resistance 0.5 m Ω Rated voltage (III/3) 1000 V	•	
Contact resistance $0.5 \text{ m}\Omega$	Nominal current I _N	41 A
	Nominal voltage U _N	1000 V
Rated voltage (III/3) 1000 V	Contact resistance	$0.5\ m\Omega$
	Rated voltage (III/3)	1000 V
Rated surge voltage (III/3) 8 kV	Rated surge voltage (III/3)	8 kV
Rated voltage (III/2) 1000 V	Rated voltage (III/2)	1000 V
Rated surge voltage (III/2) 8 kV	Rated surge voltage (III/2)	8 kV
Rated voltage (II/2) 1000 V	Rated voltage (II/2)	1000 V
Rated surge voltage (II/2) 8 kV	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 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	0.5 mm² 10 mm²
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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Dimensional drawing	h
Pitch	10.16 mm
Width [w]	40.48 mm
Height [h]	33.9 mm
Length [I]	32.8 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	0.5 mm² / solid / > 20 N
setpoint/actual value	0.5 mm² / flexible / > 20 N
	10 mm² / solid / > 90 N
	6 mm² / flexible / > 80 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 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
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02



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

Electrical tests

Thermal test | Test group C

Specification

Tested number of positions	9		
Insulation resistance			
Specification	IEC 60512-3-1:2002-02		
Insulation resistance, neighboring positions	> 5 MΩ		

IEC 60512-5-1:2002-02

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
minimum clearance value - non-homogenous field (II/2)	8 mm
minimum creepage distance (II/2)	8 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		

Durability test		
Specification		IEC 60512-9-1:2010-03
	Impulse withstand voltage at sea level	9.8 kV



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Type of packaging

ontact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
matic 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	100 °C/168 h
Power-frequency withstand voltage	4.26 kV
abient 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 %
	-5 °C 100 °C

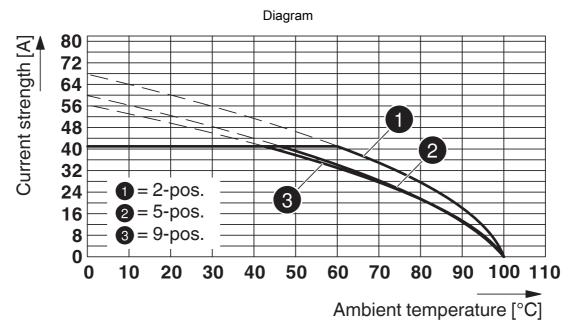
packed in cardboard



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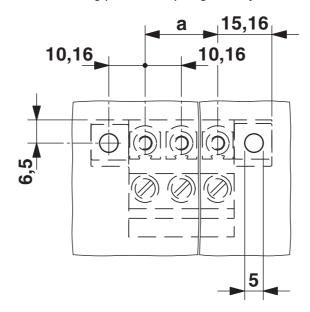


Drawings



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/1922637

c 711 us	CULus Recognized Approval ID: E60425-20010727				
		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

UNSPSC 21.0

ECLASS

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

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Environmental product compliance

EU RoHS

Le rierie	
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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