

Printed-circuit board connector - PCV 6/ 3-GL2-7,62 - 1131780

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PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 3, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm

Figure shows a 4-pos. version with locking flange at position 3

Your advantages

- ✓ Increased touch protection in the pin connector pattern for maximum safety even when not plugged in
- ✓ Intuitive locking mechanism prevents accidental disconnection
- ✓ Easy PCB replacement thanks to plug-in modules
- ✓ Well-known mounting principle allows worldwide use



Key Commercial Data

Packing unit	1
GTIN	 4 063151 058586
GTIN	4063151058586
Custom tariff number	85366930

Technical data

Item properties

Brief article description	Printed-circuit board connector
Plug-in system	POWER COMBICON 6
Type of contact	Male connector
Range of articles	PCV 6/..-GL
Pitch	7.62 mm
Number of positions	3
Mounting type	Wave soldering
Pin layout	Linear pinning
Locking	Latch mechanism/latching at position 2
Number of levels	1

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Technical data

Item properties

	1
Number of connections	3
Number of potentials	3

Electrical parameters

Nominal current	41 A
Nom. voltage	630 V
Rated voltage	630 V
Rated voltage (III/2)	630 V
Rated voltage (II/2)	1000 V
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV

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	Tin-plated
Metal surface contact area (top layer)	Tin (2 - 5 µm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 µm Ni),
Metal surface soldering area (top layer)	Tin (2 - 5 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 µm Ni)

Material data - housing

Housing color	green (6021)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions for the product

Length [l]	13.5 mm
Width [w]	38.5 mm
Height [h]	30.8 mm
Pitch	7.62 mm
Height (without solder pin)	28.2 mm
Solder pin [P]	2.6 mm

Dimensions for PCB design

Hole diameter	1.7 mm
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Packaging information

Type of packaging	packed in cardboard
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Packaging information

Pieces per package	50
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)

Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum clearance - inhomogeneous field (III/2)	5.5 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	8 mm
Minimum creepage distance value (III/2)	3.2 mm
Minimum creepage distance value (II/2)	5 mm

Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	3 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R ₁	0.8 mΩ
Insertion/withdrawal cycles	25
Contact resistance R ₂	0.8 mΩ
Impulse withstand voltage at sea level	7.3 kV
Power-frequency withstand voltage	3.31 kV

Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	6
Conductor cross section	6 mm ²
Test current	41 A
Upper limiting temperature requirements <100 °C	Test passed

Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h

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Climatic tests (D)

Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Impulse withstand voltage at sea level	7.3 kV
Power-frequency withstand voltage	3.31 kV

Environmental and durability tests (E)

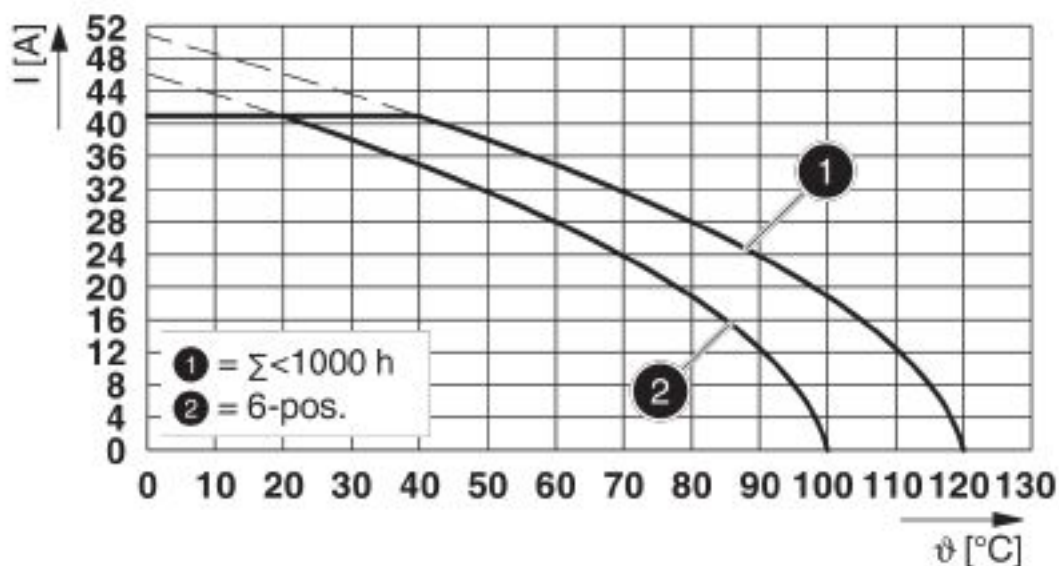
Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	50 m/s ² (60.1 - 150 Hz)
Test duration per axis	2.5 h

Drawings

Diagram



Type: LPC 6/...-STL...-7,62 with PCV 6/...-GL...-7,62

Classifications

eCl@ss

eCl@ss 10.0.1	27440402
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Classifications

eCl@ss

eCl@ss 8.0	27440402
eCl@ss 9.0	27440402

ETIM

ETIM 5.0	EC002637
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Approvals

Approvals

Approvals

EAC / VDE Zeichengenehmigung / cULus Recognized

Ex Approvals

Approval details

EAC		B.01687
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VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40050635
Nominal voltage UN	630 V		
Nominal current IN	41 A		

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20010727
	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	35 A	35 A	5 A

Accessories

Accessories

Coding element

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Accessories

Coding profile - CP-PC RD - 1701967



Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

Additional products

Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 3, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin