

Printed-circuit board connector - PCV 6/ 4-GL3-7,62 - 1130867

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PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 4, 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 | |
| GTIN | 4063151058296 |
| 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 | 4 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Locking | Latch mechanism/latching at position 3 |
| Number of levels | 1 |

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Technical data

Item properties

| | |
|-----------------------|---|
| | 1 |
| Number of connections | 4 |
| Number of potentials | 4 |

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] | 46.12 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 |
|---------------|--------|

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)

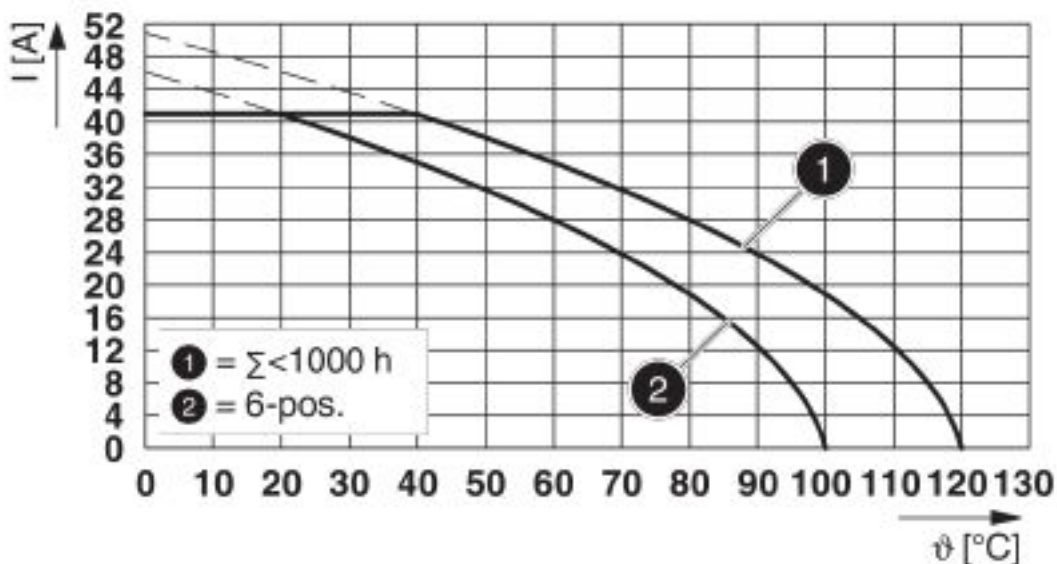
| | |
|---------------------------------------|-------------------------------------|
| Specification | IEC 61984:2008-10 |
| Result, degree of protection, IP code | Finger safety with IP20 test finger |

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 |
|----------|----------|

Approvals

Approvals

Approvals

EAC / VDE Zeichengenehmigung / cULus Recognized

Ex Approvals

Approval details

| | | |
|-----|--|---------|
| EAC | | B.01687 |
|-----|--|---------|

| | | | |
|------------------------|-------|---|----------|
| 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/ 4-STL3-7,62 - 1716941



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 4, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin