

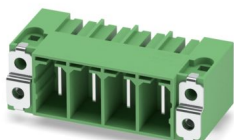
PC 35 HC/ 4-GF-SH-15,00 - PCB header



1762851

<https://www.phoenixcontact.com/us/products/1762851>

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PCB headers, nominal cross section: 35 mm², color: green, nominal current: 125 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 35 HC/..-GF-SH, pitch: 15 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.6 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 35, Electrical properties: shielded, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting method: Threaded flange, type of packaging: packed in cardboard

Your advantages

- Well-known mounting principle allows worldwide use
- Double flange for space-optimized screw connection on the housing panel and with the connector
- Shroud for professional EMC shield feed-through on the inside of the device

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1762851 |
| Packing unit | 25 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA05 |
| Product key | AAESEC |
| GTIN | 4046356460736 |
| Weight per piece (including packing) | 91.8 g |
| Weight per piece (excluding packing) | 91 g |
| Customs tariff number | 85366930 |
| Country of origin | PL |

Technical data

Product properties

| | |
|---------------------------|------------------------|
| Product type | PCB headers |
| Product family | PC 35 HC/...-GF-SH |
| Product line | COMBICON Connectors XL |
| Type | Headers |
| Number of positions | 4 |
| Pitch | 15 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |
| Mounting type | Threaded flange |
| Pin layout | Linear pinning |
| Solder pins per potential | 3 |
| Electrical characteristic | shielded |

Electrical properties

Properties

| | |
|-----------------------------|----------|
| Nominal current I_N | 125 A |
| Nominal voltage U_N | 1000 V |
| 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) | 6 kV |
| Electrical characteristic | shielded |

Mounting

| | |
|---------------|----------------|
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |

Flange

| | |
|-------------------|--------|
| Tightening torque | 0.8 Nm |
|-------------------|--------|

Attachment to feed-through panel

| | |
|-------------------|----------------------|
| Tightening torque | 1 Nm |
| Screw | 1700368 DFK-PC 35 SS |

Attachment on the PCB

| | |
|-------------------|----------------------|
| Tightening torque | 1 Nm |
| Screw | 1700368 DFK-PC 35 SS |

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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 | Electroplated silver |
| Metal surface contact area (top layer) | Silver (4 - 8 µm Ag) |
| Metal surface soldering area (top layer) | Silver (4 - 8 µm Ag) |

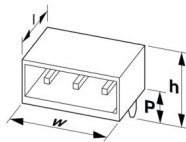
Material data - housing

| | |
|--|--------------|
| Color (Housing) | green (6021) |
| Insulating material | PBT |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 225 |
| Flammability rating according to UL 94 | V0 |

Notes

| | |
|--------------------|--|
| Notes on operation | 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

| | |
|-----------------------|--|
| Dimensional drawing |  |
| Pitch | 15 mm |
| Width [w] | 84.4 mm |
| Height [h] | 33.1 mm |
| Length [l] | 38 mm |
| Installed height | 28.5 mm |
| Solder pin length [P] | 4.6 mm |
| Pin dimensions | 2.4 x 2.5 mm |

PCB design

| | |
|---------------|----------|
| Pin spacing | 11.00 mm |
| Hole diameter | 3.6 mm |

Electrical tests

Air clearances and creepage distances |

| | |
|--|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | IIIa |
| Comparative tracking index (IEC 60112) | CTI 225 |

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| | |
|--|--------|
| 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) | 16 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) | 10 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| minimum clearance value - non-homogenous field (II/2) | 5.5 mm |
| minimum creepage distance (II/2) | 10 mm |

Environmental and real-life conditions

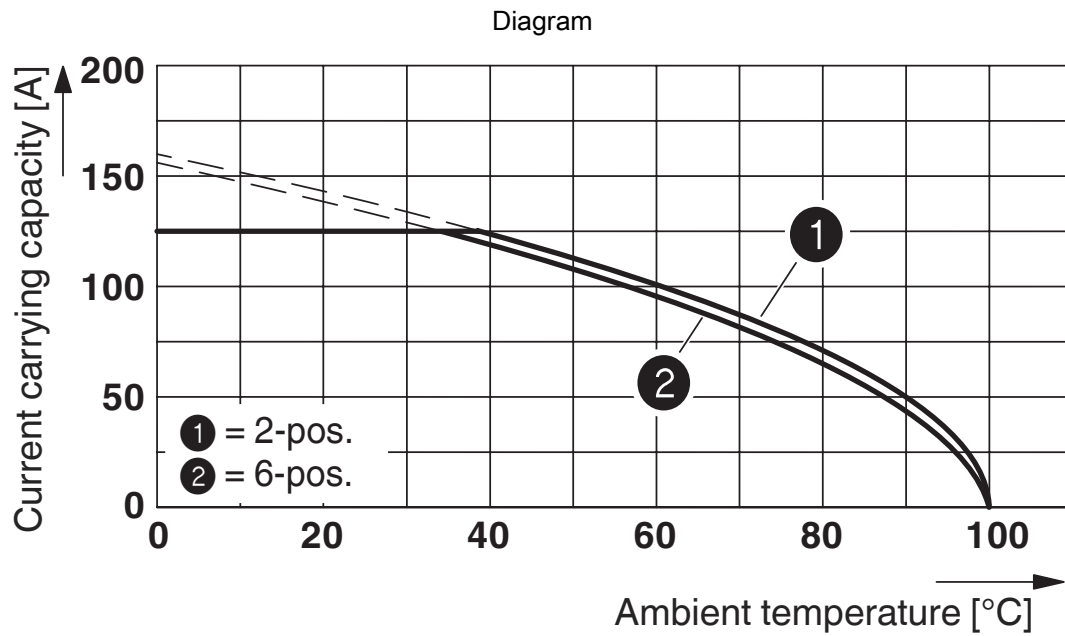
Ambient conditions

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

Packaging specifications

| | |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

Drawings



Type: PC 35 HC/...-STF-15,00 with PC 35 HC/...-GF-15,00

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1762851>

|  cULus Recognized Approval ID: E60425-20101007 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 115 A | - | - |
| C | 600 V | 115 A | - | - |

|  VDE report with production monitoring Approval ID: 40039053 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 1000 V | 125 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

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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