

Feed-through header - PCV 4/ 5-G-7,62 - 1804713

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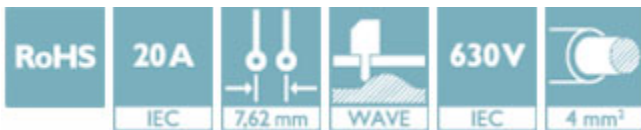


PCB headers, nominal current: 20 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, Mounting flange: Accessory Order No. 1827570

The figure shows a 5-pos. version of the product

Your advantages

- Well-known mounting principle allows worldwide use



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN | |
| GTIN | 4017918046156 |
| Weight per Piece (excluding packing) | 11.540 g |
| Custom tariff number | 85366930 |
| Country of origin | Germany |

Technical data

Item properties

| | |
|---------------------------|---------------------|
| Brief article description | Feed-through header |
| Plug-in system | POWER COMBICON 4 |
| Type of contact | Male connector |
| Range of articles | PCV 4/...-G |
| Pitch | 7.62 mm |
| Number of positions | 5 |

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Technical data

Item properties

| | |
|-----------------------|----------------|
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Locking | without |
| Number of levels | 1 |
| Number of connections | 5 |
| Number of potentials | 5 |

Electrical parameters

| | |
|-----------------------------|-------|
| Nominal current | 20 A |
| Nom. voltage | 630 V |
| Rated voltage | 400 V |
| Rated voltage (III/2) | 630 V |
| Rated voltage (II/2) | 630 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 (5 - 10 µm Sn) |
| Metal surface contact area (middle layer) | Nickel (2 - 5 µm Ni), |
| Metal surface soldering area (top layer) | Tin (5 - 10 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (2 - 5 µm Ni) |

Material data - housing

| | |
|---|--------------|
| Housing color | 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 |

Dimensions for the product

| | |
|--------------|----------|
| Length [l] | 14.25 mm |
| Width [w] | 38.06 mm |

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Technical data

Dimensions for the product

| | |
|-----------------------------|------------|
| Height [h] | 34 mm |
| Pitch | 7.62 mm |
| Height (without solder pin) | 29 mm |
| Solder pin [P] | 5 mm |
| Pin spacing | 7.62 mm |
| Pin dimensions | 1 x 0.8 mm |

Dimensions for PCB design

| | |
|---------------|---------|
| Hole diameter | 1.3 mm |
| Pin spacing | 7.62 mm |

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |

General product information

| | |
|--------------|--|
| Type of note | Notes on operation |
| Note | 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. |

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) | 5 mm |
| Minimum creepage distance value (III/2) | 3.2 mm |
| Minimum creepage distance value (II/2) | 3.2 mm |

Current carrying capacity / derating curves

Mechanical tests (A)

| | |
|-------------------------------------|-----|
| Insertion strength per pos. approx. | 8 N |
| Withdraw strength per pos. approx. | 6 N |

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Technical data

Mechanical tests (A)

| | |
|--|-------------|
| Polarization when inserted requirement >20 N | Test passed |
| Contact holder in insert requirements >20 N | Test passed |

Durability tests (B)

| | |
|--|---------------------|
| Specification | IEC 60512-5:1992-08 |
| Contact resistance R ₁ | 0.45 mΩ |
| Insertion/withdrawal cycles | 50 |
| Contact resistance R ₂ | 0.6 mΩ |
| Impulse withstand voltage at sea level | 7.3 kV |
| Power-frequency withstand voltage | 3.31 kV |
| Insulation resistance, neighboring positions | >10 ¹² Ω |

Climatic tests (D)

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

Standards and Regulations

| | |
|--|--------|
| Connection in acc. with standard | EN-VDE |
| | CSA |
| Flammability rating according to UL 94 | V0 |

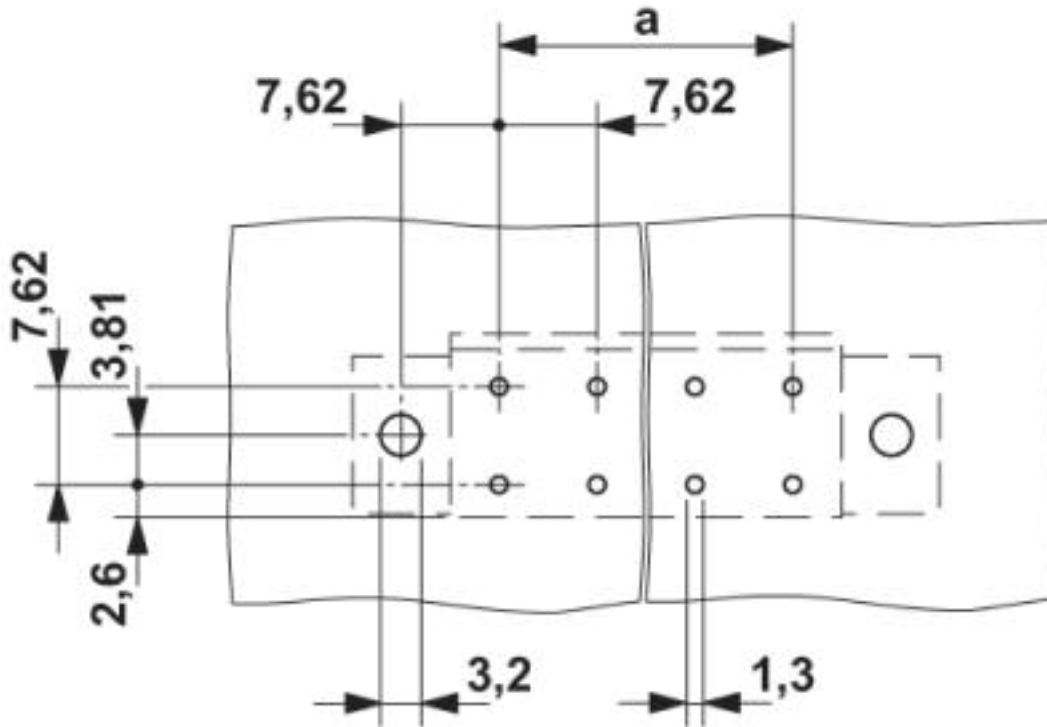
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

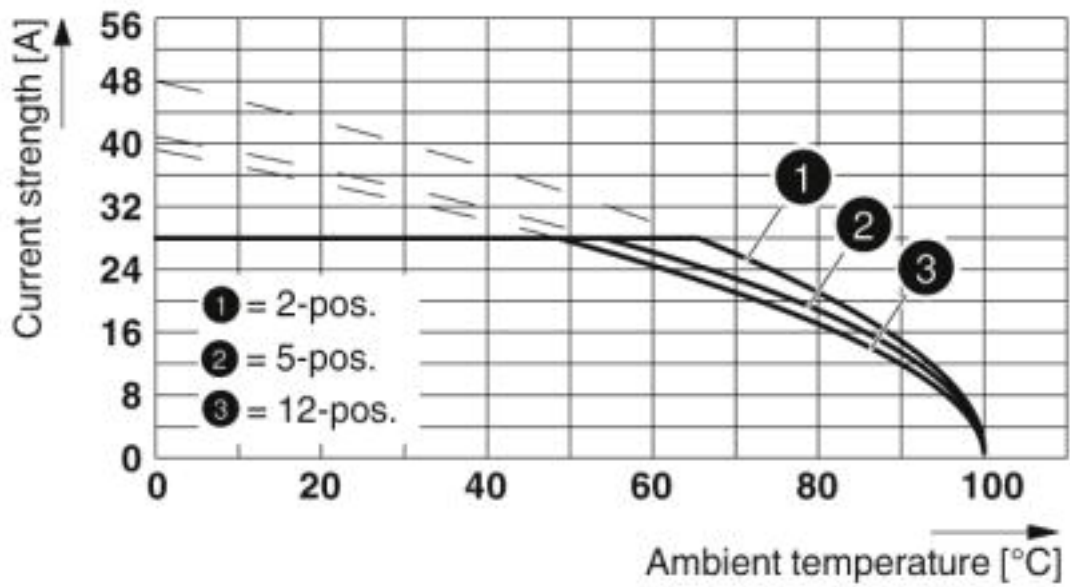
Drawings

Feed-through header - PCV 4/ 5-G-7,62 - 1804713

Drilling diagram



Diagram

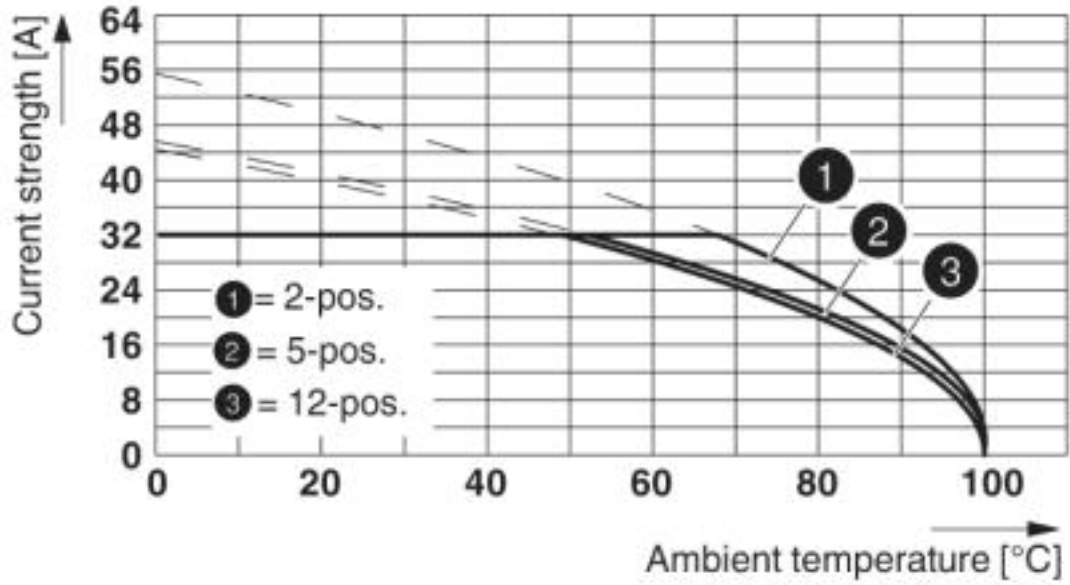


Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62

Feed-through header - PCV 4/ 5-G-7,62 - 1804713

Conductor cross section: 4 mm²

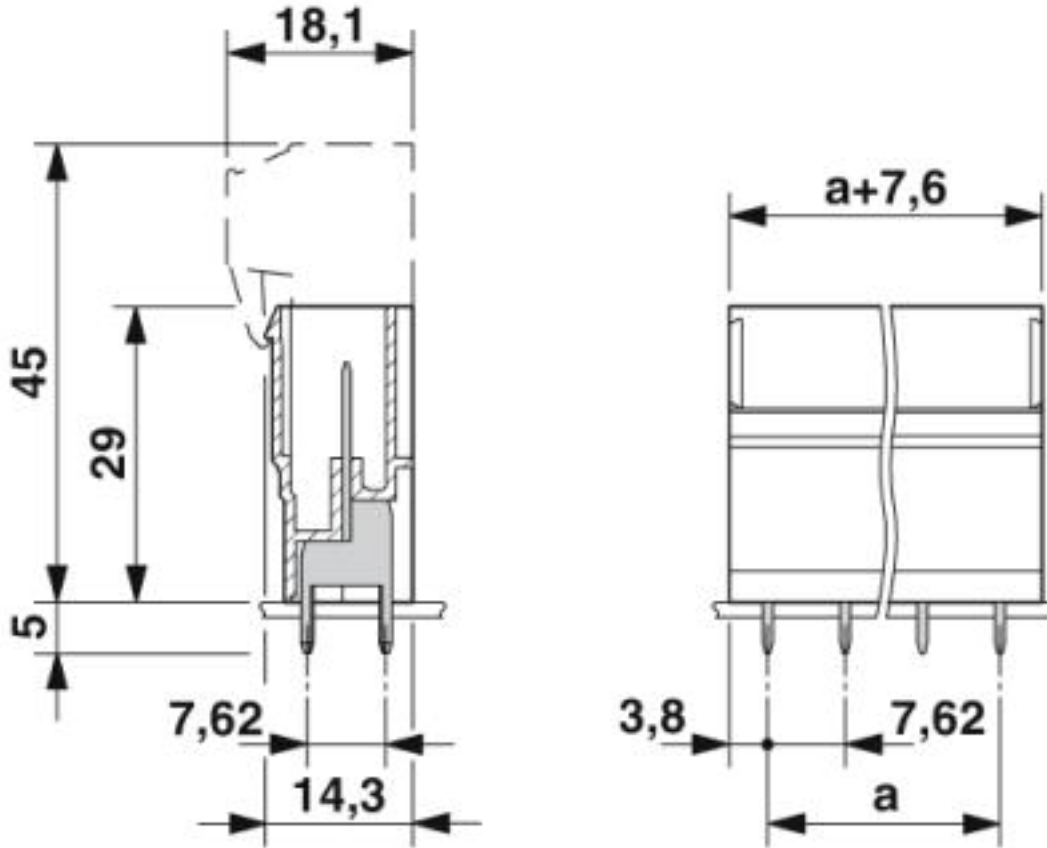
Diagram



Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62
Conductor cross section: 6 mm²

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Dimensional drawing



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440402 |
| eCl@ss 9.0 | 27440402 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002637 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002637 |
| ETIM 6.0 | EC002637 |
| ETIM 7.0 | EC002637 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11 | 39121409 |
| UNSPSC 12.01 | 39121409 |
| UNSPSC 13.2 | 39121409 |
| UNSPSC 18.0 | 39121409 |
| UNSPSC 19.0 | 39121409 |
| UNSPSC 20.0 | 39121409 |
| UNSPSC 21.0 | 39121409 |

Approvals

Approvals


Approvals

DNV GL / CSA / RS / BV / LR / EAC / cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------|---|---|------------|
| DNV GL |  | https://approvalfinder.dnvgl.com/ | TAE00001EZ |
|--------|---|---|------------|

| | | | |
|--------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| | B | C | |
| Nominal voltage UN | 300 V | 300 V | |
| Nominal current IN | 20 A | 20 A | |

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Approvals

| | | | |
|----|--|---|--------------|
| RS | | http://www.rs-head.spb.ru/en/index.php | 17.00014.272 |
|----|--|---|--------------|

| | | | |
|----|--|---|-------------|
| BV | | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 35433/B0 BV |
|----|--|---|-------------|

| | | | |
|----|--|---|----------|
| LR | | http://www.lr.org/en | 96/20012 |
|----|--|---|----------|

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

| | | | |
|------------------|--|---|-----------------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19920722 |
|------------------|--|---|-----------------|

| | B | C |
|--------------------|-------|-------|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 30 A | 30 A |

Accessories

Accessories

Coding element

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



Flange

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Accessories

Mounting flange - BF-PC 4 - 1827570



Mounting flange, is snapped onto the left and right of the headers, for screw connection with PC 4/...-STF-7.62

Labeled terminal marker

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

Additional products

Feed-through header - PCV 4/ 5-G-7,62 - 1804713

Accessories

Printed-circuit board connector - PC 4/ 5-ST-7,62 - 1804933



PCB connector, nominal current: 20 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - PCC 4/ 5-ST-7,62 - 1840162



PCB connector, nominal current: 20 A, rated voltage (III/2): 1000 V, nominal cross section: 4 mm², number of positions: 5, pitch: 7.62 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 13,5A/STG-MTN 0,5-1,0 (3190438); 13,5A/STG-MTN 0,5-1,0 BA (3190629); 20A/STG-MTN 1,5-2,5 (3190506); 20A/STG-MTN 1,5-2,5 BA (3190632). BA = Taped contacts

Printed-circuit board connector - PC 4 HV/ 5-ST-7,62 - 1880025



PCB connector, number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin