

UPCV3K 4-G-7,62 - Feed-through terminal block



1838381

<https://www.phoenixcontact.com/us/products/1838381>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 20 A, number of connections: 4, number of positions: 1, connection method: Screw/plug-in connection, cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- Can be plugged into PC 4 and PC 5 plugs
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- For mounting on NS 35/... and NS 15... DIN rails in accordance with EN 60715 - or in the case of the UPCV3K 4-G-7,62 - for mounting on NS 35/... and NS 32 DIN rails
- UPCV3K provides three plug outlets per terminal point

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1838381 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE12 |
| Product key | BE1241 |
| GTIN | 4017918134358 |
| Weight per piece (including packing) | 16.18 g |
| Weight per piece (excluding packing) | 16.18 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|------------------------|
| Product type | Plug-in terminal block |
| Product family | PCVK 4 |
| Number of positions | 1 |
| Pitch | 7.62 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Potentials | 1 |

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 1.02 W |
|---|--------|

Connection data

| | |
|---|---|
| Number of connections per level | 4 |
| Nominal cross section | 4 mm ² |
| Connection method | Screw/plug-in connection |
| Screw thread | M3 |
| Tightening torque | 0.5 ... 0.6 Nm |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Cross section AWG | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, rigid | 0.25 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 24 ... 14 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible | 0.25 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 24 ... 14 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Nominal current | 20 A |
| Maximum load current | 20 A (with 4 mm ² conductor cross-section) |
| Nominal voltage | 800 V |

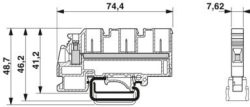
Dimensions

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| Dimensional drawing |  |
|---------------------|--|
| Width | 7.6 mm |
| Height | 74.4 mm |
| Depth on NS 32 | 46.2 mm |
| Depth on NS 35/7,5 | 41.2 mm |
| Depth on NS 35/15 | 48.7 mm |
| Pitch | 7.62 mm |

Material specifications

| | |
|---|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Contact surface | Tin Sn |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Electrical tests

Surge voltage test

| | |
|--|-------------|
| Result | Test passed |
| Short-time withstand current 4 mm ² | 0.48 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

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| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Mechanical tests

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35 |
| Result | Test passed |

Environmental and real-life conditions

Needle-flame test

| | |
|------------------|-------------|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| ASD level | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-----------------------------------|
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -60 °C ... 100 °C (max. operating temperature range including self-heating, see derating curve) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Mounting

| | |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |
| | NS 32 |

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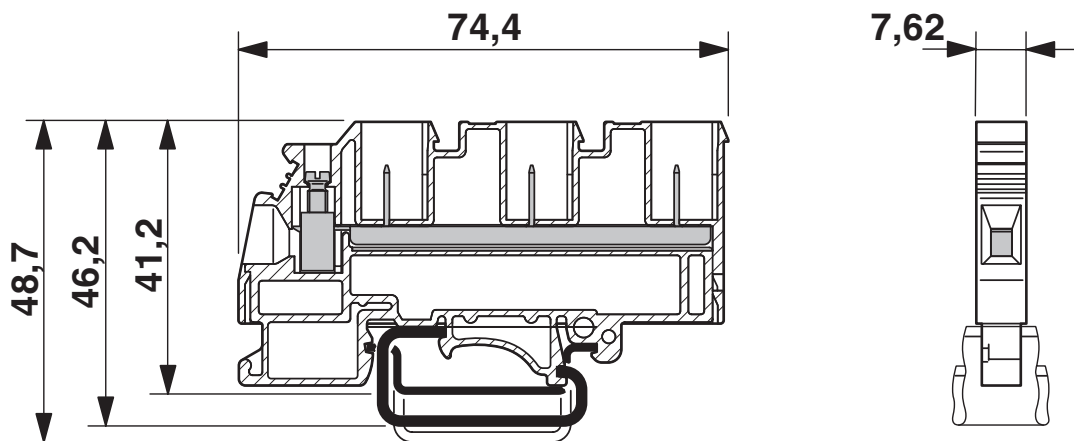
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Drawings

Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1838381>



EAC

Approval ID: KZ7500651131219505



cULus Recognized

Approval ID: E60425

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B | | | | |
| | 300 V | 30 A | 30 - 10 | - |
| C | | | | |
| | 300 V | 30 A | 30 - 10 | - |
| D | | | | |
| | 600 V | 5 A | 30 - 10 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250117 |
| ECLASS-15.0 | 27250117 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 4f62a47c-2386-413a-9b14-2453ef4cade3 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.087 kg CO2e |
|---------|---------------|

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