

UKH 70-3L-F - High-current terminal block



3076484

<https://www.phoenixcontact.com/us/products/3076484>

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for direct mounting

High-current terminal block, nom. voltage: 1000 V, nominal current: 192 A, number of connections: 6, number of positions: 3, connection method: Screw connection, Rated cross section: 70 mm², cross section: 16 mm² - 95 mm², mounting type: direct screw connection, color: gray

Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 3076484 |
| Packing unit | 4 pc |
| Minimum order quantity | 4 pc |
| Note | Made to order (non-returnable) |
| Sales key | BE13 |
| Product key | BE1311 |
| GTIN | 4046356654067 |
| Weight per piece (including packing) | 472.275 g |
| Weight per piece (excluding packing) | 472.275 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Notes

General

| | |
|------|---|
| Note | For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors. |
|------|---|

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | High current terminal block |
| Number of positions | 3 |
| Number of connections | 6 |
| Number of rows | 1 |
| Potentials | 3 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 6.27 W |

Connection data

| | |
|---------------------------------|--------------------|
| Number of connections per level | 6 |
| Nominal cross section | 70 mm ² |

Level 1 above 1 below 1

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M8 |
| Tightening torque | 8 ... 10 Nm |
| Stripping length | 24 mm |
| Internal cylindrical gage | A11 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 16 mm ² ... 95 mm ² |
| Cross section AWG | 4 ... 3/0 (converted acc. to IEC) |
| Conductor cross-section flexible | 25 mm ² ... 70 mm ² |
| Conductor cross-section, flexible [AWG] | 3 ... 2/0 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 16 mm ² ... 70 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 16 mm ² ... 70 mm ² |
| 2 conductors with same cross section, rigid | 16 mm ² ... 25 mm ² |
| 2 conductors with same cross section, flexible | 16 mm ² ... 25 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 16 mm ² ... 25 mm ² |
| Nominal cross section | 70 mm ² |

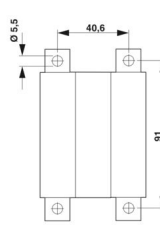
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| | |
|----------------------|--|
| Nominal current | 192 A |
| Maximum load current | 192 A (in case of a 70 mm ² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 1000 V |
| Note | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 60.9 mm |
| Height | 80 mm |

Material specifications

| | |
|---|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| 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

| | |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|---|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 70 mm ² | 8.4 kA |

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| | |
|-----------------------------------|-------------|
| Result | Test passed |
| Power-frequency withstand voltage | |
| Test voltage setpoint | 2.2 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

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

Mechanical tests

Mechanical strength

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint | 10 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|-----------------------------|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 16 mm ² / 2.9 kg |
| | 70 mm ² /10.4 kg |
| | 95 mm ² /14 kg |
| 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):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Pulse shape | Half-sine |

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| | |
|--------------------------------|-----------------------------------|
| 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 (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 (storage/transport) | 30 % ... 70 % |

Standards and regulations

| | |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

Mounting

| | |
|---------------|-------------------------|
| Mounting type | direct screw connection |
|---------------|-------------------------|

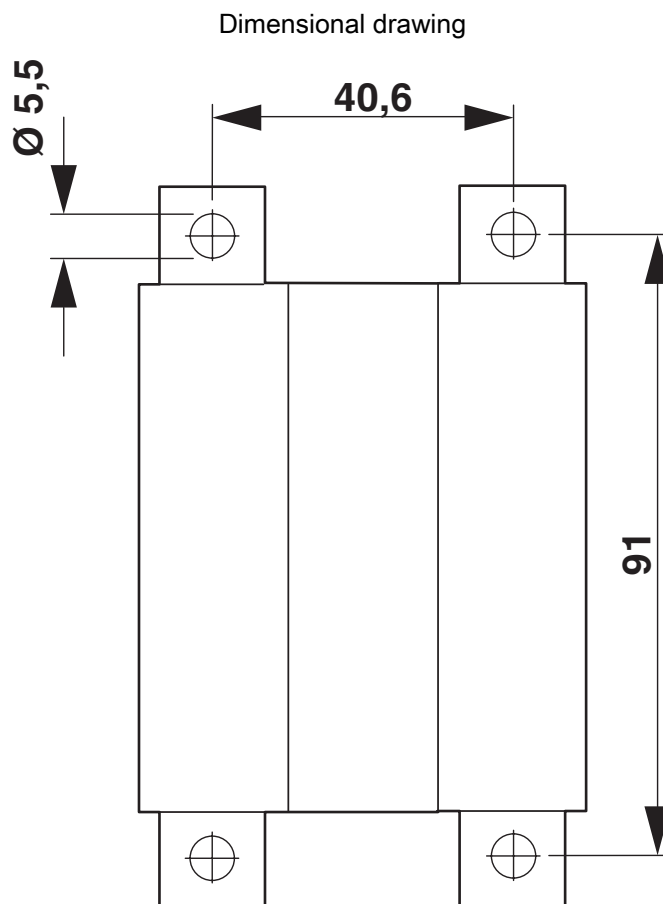
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Drawings

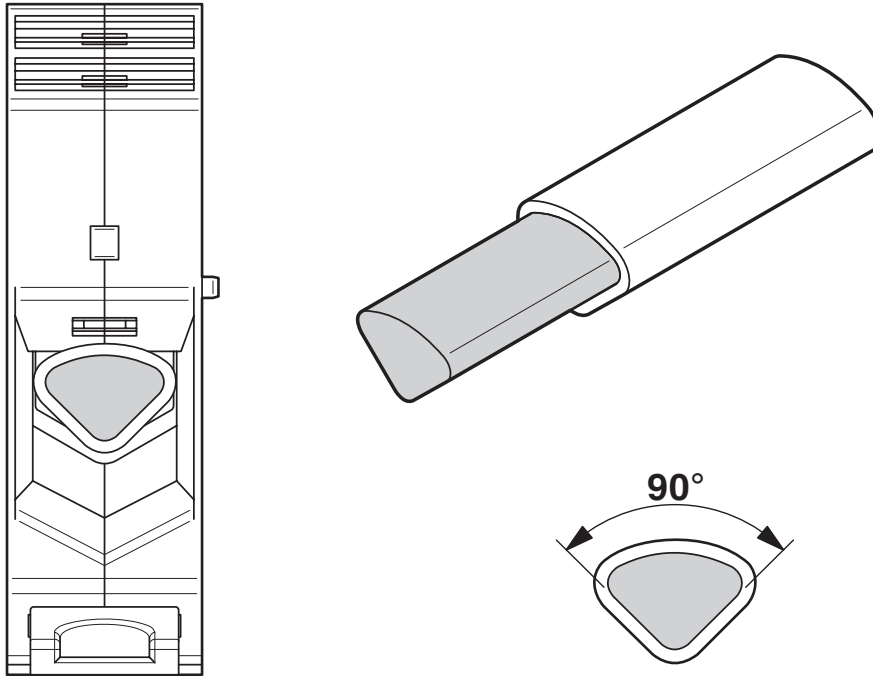


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Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

Circuit diagram



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Classifications

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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