

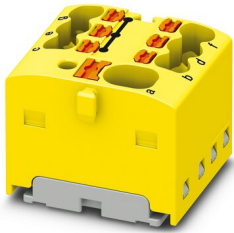
Distribution block - PTFIX 4/6X1,5 YE



1047471

<https://www.phoenixcontact.com/gb/products/1047471>

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Distribution block, Basic terminal block with supply, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, Load contact, cross section: 0.14 mm² - 2.5 mm², Line contact, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: yellow

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Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 1047471 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales Key | BEA122 |
| Product Key | BEA122 |
| Catalog Page | Page 435 (C-1-2019) |
| GTIN | 4055626665764 |
| Weight per Piece (including packing) | 8.81 g |
| Weight per Piece (excluding packing) | 7 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical Data

Notes

General

| | |
|------|--|
| Note | For power distribution applications, IEC 60364-4-43:2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed! |
| | The maximum load current of a single clamping unit must not be exceeded. |

Product properties

| | |
|-----------------------|----------------------------|
| Product type | Distributor terminal block |
| Number of connections | 7 |
| Number of rows | 1 |

Insulation characteristics

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

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 0.56 W |

Connection data

| | |
|---------------------------------|---------------------|
| Service Entrance | yes |
| Number of connections per level | 7 |
| Nominal cross section | 1.5 mm ² |
| Rated cross section AWG | 14 |

Load contact

| | |
|---|--|
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A3 |
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |
| Cross section AWG | 26 ... 14 |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible [AWG] | 26 ... 14 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Nominal current | 17.5 A |
| Maximum load current | 41 A |
| Maximum total current | 32 A |
| Nominal voltage | 450 V |

Line contact

| | |
|------------------|-----------------|
| Stripping length | 10 mm ... 12 mm |
|------------------|-----------------|

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| | |
|---|--|
| Conductor cross section solid | 0.2 mm ² ... 6 mm ² |
| Cross section AWG | 24 ... 10 |
| Conductor cross section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross section, flexible [AWG] | 24 ... 10 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| Nominal current | 41 A |
| Maximum load current | 41 A (with 6 mm ² conductor connection) |
| Maximum total current | 41 A |
| Nominal cross section | 4 mm ² |

Load contact Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross section solid | 0.34 mm ² ... 2.5 mm ² |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.34 mm ² ... 1.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm ² ... 1.5 mm ² |

Line contact Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross section solid | 0.34 mm ² ... 6 mm ² |
| Conductor cross section, solid [AWG] | 24 ... 12 |
| Conductor cross section flexible | 0.34 mm ² ... 4 mm ² |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.2 mm ² ... 4 mm ² |

Dimensions

| | |
|--------|---------|
| Width | 19 mm |
| Height | 17.7 mm |
| Length | 21.6 mm |

Material specifications

| | |
|---|-------------|
| Color | yellow |
| 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)) | 125 °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) | 27,5 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |

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| | |
|---|--------|
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Mechanical properties

Mechanical data

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

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 | Service life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| 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):2018-05 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 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 ... 105 °C (max. short-term operating temperature RTI Elec.) |
| 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 60998-2-2 |
| | IEC 60998-2-2 |
| | IEC 60998-2-2 |
| | IEC 60998-2-2 |

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Mounting

| | |
|---------------|--------------------------------------|
| Mounting type | for snapping onto a DIN rail adapter |
| | Direct mounting with flange |
| | Free-hanging |

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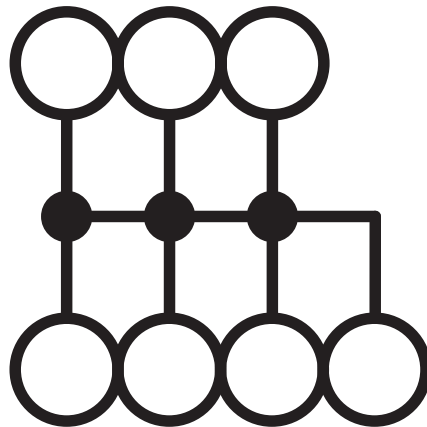


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Drawings

Circuit diagram



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Approvals

| DNV Approval ID: TAE00002TT | | | | |
|---------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 500 V | 24 A | - | - |

| CSA Approval ID: 13631 | | | | |
|----------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | | | | |
| Output | 300 V | 20 A | 26 - 12 | - |
| Input | 300 V | 30 A | 24 - 10 | - |
| Use group C | | | | |
| Output | 150 V | 20 A | 26 - 12 | - |
| Input | 150 V | 30 A | 24 - 10 | - |

| IECEE CB Scheme Approval ID: DE1-63084 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 450 V | 32 A | - | - 4 |

| EAC Approval ID: RU C-DE.BL08.B.00644 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

| LR Approval ID: LR2002627TA | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

| BV Approval ID: 59146/A0 BV | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

| VDE Zeichengenehmigung Approval ID: 40047798 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

| cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | | | | |
| Output | 300 V | 20 A | 26 - 12 | - |

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| | | | | |
|-------------|-------|------|---------|---|
| Input | 300 V | 30 A | 24 - 10 | - |
| Use group C | | | | |
| Output | 150 V | 20 A | 26 - 12 | - |
| Input | 150 V | 30 A | 24 - 10 | - |

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27141120 |
| ECLASS-10.0.1 | 27141120 |
| ECLASS-11.0 | 27141120 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

China RoHS

Environmentally friendly use period: unlimited = EFUP-e

No hazardous substances above threshold values

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