# PTFIX 2X4 VT - Monoblock

1028368

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Monoblock, Basic terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Push-in connection, Rated cross section: 4 mm$^2$, cross section: 0.2 mm$^2$ - 6 mm$^2$, Push-in connection, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: violet

## Commercial data

| | |
|---|---|
| Item number | 1028368 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE09 |
| Product key | BEA111 |
| GTIN | 4055626526980 |
| Weight per piece (including packing) | 4.939 g |
| Weight per piece (excluding packing) | 4.939 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Distributor terminal block |
| Number of connections | 2 |
| Number of rows | 1 |

### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 12 |
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.2 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.2 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 32 A |
| Maximum load current | 38 A (bei 6 mm² Leiterquerschnitt starr) |
| Maximum total current | The maximum load current of the individual terminal point must not be exceeded. |
| Nominal voltage | 800 V |
| Note | The IEC 60947-7-1 standard applies for the use of mounting accessories. |
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60998-2-2 |
| Nominal voltage | 450 V (in accordance with IEC 60998-2-2) |

### Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |

| | |
|---|---|
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 28.6 mm |
| Depth | 21.7 mm |

## Material specifications

| | |
|---|---|
| Color | violet (RAL 4005) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °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 |
| 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 4 mm² | 0.48 kA |
| Short-time withstand current 6 mm² | 0.72 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 2 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

Mechanical strength

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

Attachment on the carrier

| | |
|---|---|
| Result | Test passed |
| Note | When aligning several blocks, the foot elements should be placed in a way that maximum 2 blocks are free-hanging in between. Flange elements should be placed after every 6 blocks. |
| | Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen. |
| | One DIN rail adapter PTFIX-NS35 is intended for maximum 9 blocks. |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.2 mm² / 0.2 kg |
| | 4 mm² / 0.9 kg |
| | 6 mm² / 1.4 kg |
| Result | Test passed |

## Environmental and real-life conditions

Aging

| | |
|---|---|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

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

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)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):2008-03 |
| 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 ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |
| | IEC 60998-2-2 |

## Mounting

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

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1028368

**DNV**
Approval ID: TAE00002TT-05

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 500 V | 24 A | - | - |

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 600 V | 32 A | 24 - 10 | - |
| C | | | | |
| | 600 V | 32 A | 24 - 10 | - |

**IECEE CB Scheme**
Approval ID: DE1-63087

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 450 V | 32 A | - | - 4 |

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

**EAC**
Approval ID: RU C-DE.BE.B.03378

**VDE Zeichengenehmigung**
Approval ID: 40047798

**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 | | | | |

| | | | | |
|---|---|---|---|---|
| | 600 V | 32 A | 24 - 10 | - |
| C | | | | |
| | 600 V | 32 A | 24 - 10 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250118 |
| ECLASS-15.0 | 27250118 |

### ETIM

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

### UNSPSC

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

## 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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