

PTFIX 2X4 RD - Distribution block



1028362

<https://www.phoenixcontact.com/us/products/1028362>

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Distribution block, Basic terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Push-in connection, 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: red

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1028362 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE09 |
| Product key | BEA111 |
| Catalog page | Page 447 (C-1-2019) |
| GTIN | 4055626526928 |
| Weight per piece (including packing) | 4.935 g |
| Weight per piece (excluding packing) | 4.935 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

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

Electrical properties

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

Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Conductor cross section rigid | 0.2 mm ² ... 6 mm ² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross section, flexible [AWG] | 24 ... 10 (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) | 0.2 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 ... 1 mm ² |
| Nominal current | 32 A |
| Maximum load current | 38 A (bei 6 mm ² Leiterquerschnitt starr) |
| Nominal voltage | 800 V |
| Note | The IEC 60947-7-1 standard applies for the use of mounting accessories. |
| Nominal cross section | 4 mm ² |

Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross section rigid | 0.5 mm ² ... 6 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm ² ... 4 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm ² ... 4 mm ² |

Dimensions

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

Material specifications

| | |
|--|-----|
| Color | red |
| Flammability rating according to UL 94 | V0 |
| Insulating material | PA |

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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 mm ² | 0.48 kA |
| Short-time withstand current 6 mm ² | 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 mm ² / 0.2 kg 4 mm ² / 0.9 kg 6 mm ² / 1.4 kg |
| Result | Test passed |

Environmental and real-life conditions

Aging

| | |
|--------------------|-----|
| Temperature cycles | 192 |
|--------------------|-----|

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| | |
|--------|-------------|
| 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 | 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):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 ... 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 % |

Mounting

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

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1028362>

| DNV Approval ID: TAE00002TT-04 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 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 | 600 V | 32 A | 24 - 10 | - |
| Use group C | 600 V | 32 A | 24 - 10 | - |

| CB Scheme Approval ID: DE1-63087 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 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 | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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

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

| cULus Recognized Approval ID: E60425 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250118 |

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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Accessories

PTFIX-F - Flange

3274060

<https://www.phoenixcontact.com/us/products/3274060>



Flange, with screw-on fixing, length: 28.6 mm, width: 8.6 mm, height: 28.6 mm, color: gray, mounting type: Screw mounting

PTFIX-NS15A - DIN rail adapter

3274058

<https://www.phoenixcontact.com/us/products/3274058>



DIN rail adapter, length: 28.6 mm, width: 10.3 mm, height: 28.6 mm, color: gray, mounting type: NS 15

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PTFIX-NS15A-FIX - DIN rail adapter

3274059

<https://www.phoenixcontact.com/us/products/3274059>

DIN rail adapter, with end stop function, length: 28.6 mm, width: 10.3 mm, height: 28.6 mm, color: gray, mounting type: NS 15



PTFIX-NS35 - DIN rail adapter

3274054

<https://www.phoenixcontact.com/us/products/3274054>

DIN rail adapter, length: 58.1 mm, width: 28.6 mm, height: 58.1 mm, color: gray, mounting type: NS 35/7,5



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PTFIX-NS35A - DIN rail adapter

3274056

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DIN rail adapter, length: 45.7 mm, width: 10.3 mm, height: 45.7 mm, color: gray, mounting type: NS 35/7,5



PTFIX-NS35A-FIX - DIN rail adapter

3274057

<https://www.phoenixcontact.com/us/products/3274057>

DIN rail adapter, with end stop function, length: 45.7 mm, width: 10.3 mm, height: 45.7 mm, color: gray, mounting type: NS 35/7,5



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SK 6,2/3,8:FORTL.ZAHLEN - Marker card

0804374

<https://www.phoenixcontact.com/us/products/0804374>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 6.2 mm, lettering field size: 6.2 x 3.8 mm

SK 6,2/3,8:FORTL.ZAHLEN 1-10 - Marker for terminal blocks

0804374:0001

<https://www.phoenixcontact.com/us/products/0804374:0001>



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 1 ... 10, 10-section marker strips with 12 identical decades, white, for terminal block width: 6.2 mm, mounting type: adhesive

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SK 6,2/3,8:FORTL.ZAHLEN 11-20 - Marker for terminal blocks

0804374:0011

<https://www.phoenixcontact.com/us/products/0804374:0011>



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 11 ... 20, 10-section marker strips with 12 identical decades, white, for terminal block width: 6.2 mm, mounting type: adhesive

SK 6,2/3,8:FORTL.ZAHLEN 21-30 - Marker for terminal blocks

0804374:0021

<https://www.phoenixcontact.com/us/products/0804374:0021>



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 21 ... 30, 10-section marker strips with 12 identical decades, white, for terminal block width: 6.2 mm, mounting type: adhesive

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<https://www.phoenixcontact.com/us/products/1028362>

SK 6,2/3,8:FORTL.ZAHLEN 31-40 - Marker for terminal blocks

0804374:0031

<https://www.phoenixcontact.com/us/products/0804374:0031>



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 31 ... 40, 10-section marker strips with 12 identical decades, white, for terminal block width: 6.2 mm, mounting type: adhesive

SK 6,2/3,8:FORTL.ZAHLEN 41-50 - Marker for terminal blocks

0804374:0041

<https://www.phoenixcontact.com/us/products/0804374:0041>



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 41 ... 50, 10-section marker strips with 12 identical decades, white, for terminal block width: 6.2 mm, mounting type: adhesive

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US-TML (104X3,8) - Marker for terminal blocks

0830768

<https://www.phoenixcontact.com/us/products/0830768>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

US-TML (104X2,8) - Marker for terminal blocks

0830767

<https://www.phoenixcontact.com/us/products/0830767>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

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

0803906

<https://www.phoenixcontact.com/us/products/0803906>



Marker card, Din A4, 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

SK U/2,8 WH:UNBEDRUCKT - Marker card

0803883

<https://www.phoenixcontact.com/us/products/0803883>



Marker card, Din A4, 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 2.8 mm, Number of individual labels: 3600

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TML (EX3,8)R - Marker strip

0801837

<https://www.phoenixcontact.com/us/products/0801837>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 30000 x 3.8 mm, Number of individual labels: 12

TML (104X3,8)R - Marker strip

0801833

<https://www.phoenixcontact.com/us/products/0801833>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

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TML (104X2,8)R - Marker strip

0801832

<https://www.phoenixcontact.com/us/products/0801832>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

TML (EX2,8)R - Marker strip

0801836

<https://www.phoenixcontact.com/us/products/0801836>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 14

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MM-TML (EX3,8)R C1 WH/BK - Label

1092026

<https://www.phoenixcontact.com/us/products/1092026>



Label, Roll, white/black, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, lettering field size: continuous x 2.8 mm

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