

Distribution block - PTFIX 6X4-NS35A RD



3273662

<https://www.phoenixcontact.com/de/produkte/3273662>

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Distribution block, the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories, Block with horizontal alignment, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, cross section: 0.2 mm² - 6 mm², mounting type: NS 35/7,5, NS 35/15, color: red

Your advantages

- Time savings of up to 80 %, thanks to ready-to-mount blocks without manual bridging
- Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Clear wiring, thanks to eleven different color variants
- Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 3273662 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales Key | A1 - Reihenklemmen |
| Product Key | BEA113 |
| Catalog Page | Page 449 (C-1-2019) |
| GTIN | 4055626646466 |
| Weight per Piece (including packing) | 18,57 g |
| Weight per Piece (excluding packing) | 18,02 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

Technical Data

Notes

| | |
|--------------------|--|
| Notes on operation | the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories |
|--------------------|--|

General

| | |
|------|--|
| Note | The maximum load current of a single clamping unit must not be exceeded. |
|------|--|

Product properties

| | |
|-----------------------|----------------------------|
| Product type | Distributor terminal block |
| Number of connections | 6 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

Connection data

| | |
|---|---|
| Number of connections per level | 6 |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 10 |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid | 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 ... 12 (converted acc. to IEC) |
| 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 |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Nominal current | 32 A |
| Maximum load current | 41 A |
| Maximum total current | 63 A |
| Nominal voltage | 800 V |

Connection cross sections directly pluggable

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| | |
|---|--|
| Conductor cross section solid | 0.5 mm ² ... 6 mm ² |
| Conductor cross section, solid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Flexible conductor cross section flexible (ferrule, w/o 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 | 18.5 mm |
| Height NS 35/7,5 | 30.9 mm |
| Length | 45.7 mm |

Material specifications

| | |
|---|--------|
| Color | red |
| 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) | 125 °C |

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 |
| | 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 |
|--------|-------------|

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Attachment on the carrier

| | |
|-------------------------|---|
| DIN rail/fixing support | NS 35/NS 15 |
| Test force setpoint | 5 N |
| Result | Test passed |
| Note | <p>When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.</p> <p>For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.</p> <p>When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.</p> |

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 |
| 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 (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):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |

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| | |
|-----------------|-----------------------------------|
| 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 60947-7-1 |
|----------------------------------|---------------|

Mounting

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

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

| CB Scheme Approval ID: DE1-62701 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 800 V | 32 A | - | - 4 |

| EAC Approval ID: RU C-DE.AI30.B.01102 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

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

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

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

| VDE Zeichengenehmigung Approval ID: 40047797 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

| cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | | | | |

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| | | | | |
|-------------|-------|------|---------|---|
| | 600 V | 32 A | 24 - 10 | - |
| Use group C | | | | |
| | 600 V | 32 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 |
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UNSPSC

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

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Environmental Product Compliance

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|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values |
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