

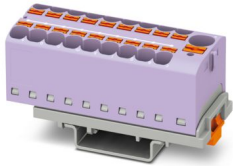
PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Distribution block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 19, connection method: Push-in connection, Rated cross section: 4 mm², Load contact, cross section: 0.2 mm² - 6 mm², Push-in connection, Line contact, Rated cross section: 10 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: violet

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3273652 |
| Packing unit | 8 pc |
| Minimum order quantity | 8 pc |
| Sales key | BE09 |
| Product key | BEA124 |
| GTIN | 4055626667584 |
| Weight per piece (including packing) | 56.3 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

3273652

<https://www.phoenixcontact.com/us/products/3273652>

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! |
|------|--|

Product properties

| | |
|-----------------------|----------------------------|
| Product type | Distributor terminal block |
| Number of connections | 19 |
| 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

| | |
|---------------------------------|-------------------|
| Service Entrance | yes |
| Number of connections per level | 19 |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 10 |

Load contact

| | |
|---|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| 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 ... 6 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 |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Nominal cross section | 4 mm ² |
| Nominal current | 32 A |
| Maximum load current | 41 A (with 6 mm ² conductor connection) |
| Maximum total current | 63 A (The maximum load current of the individual terminal point) |

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

| | |
|-----------------|------------------------|
| | must not be exceeded.) |
| Nominal voltage | 800 V |

Line contact

| | |
|---|--|
| Connection method | Push-in connection |
| Stripping length | 12 mm ... 14 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm ² ... 10 mm ² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.75 mm ² ... 2.5 mm ² |
| Nominal cross section | 10 mm ² |
| Nominal current | 57 A |
| Maximum load current | 57 A (with 10 mm ² conductor cross-section) |
| Maximum total current | 63 A (The maximum load current of the individual terminal point must not be exceeded.) |
| Nominal voltage | 800 V |

Load contact Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross-section rigid | 0.5 mm ² ... 6 mm ² |
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| 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 |

Line contact Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross-section rigid | 1.5 mm ² ... 10 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1.5 mm ² ... 10 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 28.6 mm |
| Height | 58.1 mm |
| Depth on NS 15 | 30.4 mm |
| Depth on NS 35/7,5 | 32.4 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 |

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

| | |
|---|-------------|
| 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 10 mm ² | 1.2 kA |
| Short-time withstand current 4 mm ² | 1.2 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 | <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>Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.</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

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

| | |
|--------------------------------|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.5 mm ² / 0.3 kg 10 mm ² / 2 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):2018-05 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | f ₁ = 5 Hz to f ₂ = 250 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):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 ... 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 |
|----------------------------------|---------------|

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

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

Mounting

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

3273652

<https://www.phoenixcontact.com/us/products/3273652>

Drawings

Circuit diagram



PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3273652>



CSA

Approval ID: 13631



IECEE CB Scheme

Approval ID: DE1-62701

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 800 V | 57 A | - | - 10 |



EAC

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



VDE Zeichengenehmigung

Approval ID: 40047797



cULus Recognized

Approval ID: E60425



EAC

Approval ID: KZ7500651131219505

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

PTFIX 10/18X4-NS35 VT - Distribution block



3273652

<https://www.phoenixcontact.com/us/products/3273652>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com