

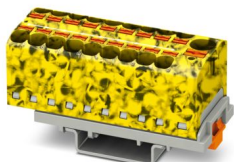
# PTFIX 10/18X4-NS35-FE - Distribution block



3273656

<https://www.phoenixcontact.com/nl/products/3273656>

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Distribution block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 19, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, Load contact, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, Push-in connection, Line contact, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black/yellow

## 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                          | 3273656       |
| Packing unit                         | 8 pc          |
| Minimum order quantity               | 8 pc          |
| Sales key                            | BEA124        |
| Product key                          | BEA124        |
| GTIN                                 | 4055626667614 |
| Weight per piece (including packing) | 54,381 g      |
| Weight per piece (excluding packing) | 22,22 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

## 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

|                       |    |
|-----------------------|----|
| 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 <sup>2</sup> |
| 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 <sup>2</sup> ... 6 mm <sup>2</sup>                                              |
| Cross section AWG                                                                         | 24 ... 10 (converted acc. to IEC)                                                      |
| Conductor cross-section flexible                                                          | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                                              |
| Conductor cross-section, flexible [AWG]                                                   | 24 ... 10 (converted acc. to IEC)                                                      |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                              |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                              |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>                                              |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                                                      |
| Nominal current                                                                           | 32 A                                                                                   |
| Maximum load current                                                                      | 41 A (with 6 mm <sup>2</sup> conductor connection)                                     |
| Maximum total current                                                                     | 63 A (The maximum load current of the individual terminal point must not be exceeded.) |

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|                 |       |
|-----------------|-------|
| 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 <sup>2</sup> ... 10 mm <sup>2</sup>                                             |
| Cross section AWG                                                                         | 24 ... 10 (converted acc. to IEC)                                                      |
| Conductor cross-section flexible                                                          | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                             |
| Conductor cross-section, flexible [AWG]                                                   | 24 ... 10 (converted acc. to IEC)                                                      |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                             |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                             |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                           |
| Nominal cross section                                                                     | 10 mm <sup>2</sup>                                                                     |
| Nominal current                                                                           | 57 A                                                                                   |
| Maximum load current                                                                      | 57 A (with 10 mm <sup>2</sup> 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 <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Conductor cross-section, rigid [AWG]                              | 20 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |

## Line contact Connection cross sections directly pluggable

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

## 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                                          | multicolored (RAL -) |
|                                                | black (RAL 9005)     |
|                                                | yellow (RAL 1018)    |
| Flammability rating according to UL 94         | V0                   |
| Insulating material group                      | I                    |
| Insulating material                            | PA                   |
| Static insulating material application in cold | -60 °C               |

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|                                                                  |             |
|------------------------------------------------------------------|-------------|
| 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 $\leq 45$ K |
| Result                                          | Test passed                         |
| Short-time withstand current 10 mm <sup>2</sup> | 1.2 kA                              |
| Short-time withstand current 4 mm <sup>2</sup>  | 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> |

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## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 10 mm <sup>2</sup> / 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              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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

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

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/3273656>



**CSA**

Approval ID: 13631



**IECEE CB Scheme**

Approval ID: DE1-62701

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| 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

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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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