

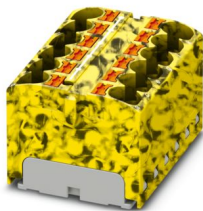
# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

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, bridged internally, nom. voltage: 450 V, nominal current: 32 A, number of connections: 12, connection method: Push-in connection, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, 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
- Clear wiring, thanks to eleven different color variants
- 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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3273832             |
| Packing unit                         | 8 pc                |
| Minimum order quantity               | 8 pc                |
| Sales key                            | BE09                |
| Product key                          | BEA114              |
| Catalog page                         | Page 447 (C-1-2019) |
| GTIN                                 | 4055626646930       |
| Weight per piece (including packing) | 29.03 g             |
| Weight per piece (excluding packing) | 29.03 g             |
| Customs tariff number                | 85369010            |
| Country of origin                    | PL                  |

# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

## 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 | 12                         |
| Number of rows        | 1                          |
| Potentials            | 1                          |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### 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                                                           | 12                                        |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                         |
| Rated cross section AWG                                                                   | 12                                        |
| Stripping length                                                                          | 10 mm ... 12 mm                           |
| Internal cylindrical gage                                                                 | A4                                        |
| Connection in acc. with standard                                                          | IEC 60998-2-2                             |
| 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> ... 4 mm <sup>2</sup> |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 12 (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 current                                                                           | 32 A                                      |
| Maximum load current                                                                      | 63 A                                      |
| Maximum total current                                                                     | 41 A                                      |
| Nominal voltage                                                                           | 450 V                                     |

# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

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>  |

## Dimensions

|        |         |
|--------|---------|
| Width  | 36.9 mm |
| Height | 28.6 mm |
| Depth  | 21.7 mm |

## Material specifications

|                                                                         |                   |
|-------------------------------------------------------------------------|-------------------|
| Color                                                                   | multicolored      |
|                                                                         | 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            |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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       |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg          |
| 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            |

## Mechanical properties

Mechanical data

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

## Mechanical tests

Attachment on the carrier

|        |                                                                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Test passed                                                                                                                                                |
| Note   | 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. |
|        | 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.    |

# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

## Environmental and real-life conditions

### Needle-flame test

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

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| 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):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, no longer than 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 60998-2-2 |
|----------------------------------|---------------|

## Mounting

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

# PTFIX 12X4-FE - Distribution block

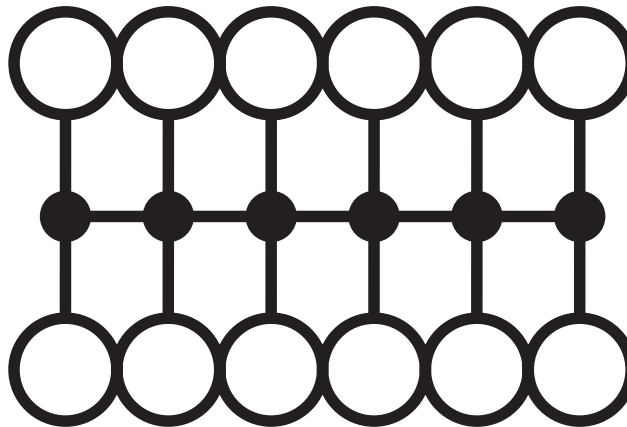
3273832

<https://www.phoenixcontact.com/us/products/3273832>



## Drawings

Circuit diagram



# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3273832>

| DNV<br>Approval ID: TAE00002TT-04 |                       |                       |                   |                             |
|-----------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                   | 500 V                 | 24 A                  | -                 | -                           |

| CSA<br>Approval ID: 13631 |                       |                       |                   |                             |
|---------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B               |                       |                       |                   |                             |
|                           | 600 V                 | 32 A                  | 24 - 10           | -                           |
| Use group C               |                       |                       |                   |                             |
|                           | 600 V                 | 32 A                  | 24 - 10           | -                           |

| CB<br>IECEE CB Scheme<br>Approval ID: DE1-63087 |                       |                       |                   |                             |
|-------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                 | 450 V                 | 32 A                  | -                 | - 4                         |

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

| LR<br>Approval ID: LR2002627TA |  |  |  |  |
|--------------------------------|--|--|--|--|
|--------------------------------|--|--|--|--|

| BV<br>Approval ID: 59146/A0 BV |  |  |  |  |
|--------------------------------|--|--|--|--|
|--------------------------------|--|--|--|--|

| VDE Zeichengenehmigung<br>Approval ID: 40047798 |  |  |  |  |
|-------------------------------------------------|--|--|--|--|
|-------------------------------------------------|--|--|--|--|

| cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|-----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                             |                       |                       |                   |                             |
|                                         | 600 V                 | 32 A                  | 24 - 10           | -                           |
| Use group C                             |                       |                       |                   |                             |

# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

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

# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

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



# PTFIX 12X4-FE - Distribution block



3273832

<https://www.phoenixcontact.com/us/products/3273832>

## 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 2024 © - 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](mailto:info@phoenixcon.com)