

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

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, Basic terminal block, nom. voltage: 450 V, nominal current: 57 A, number of connections: 6, connection method: Push-in connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: gray

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 | 1082387 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE09 |
| Product key | BEA113 |
| GTIN | 4055626812656 |
| Weight per piece (including packing) | 26.22 g |
| Weight per piece (excluding packing) | 26.22 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

Technical data

Notes

General

| | |
|------|---|
| Note | 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. |
| | Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen. |
| | When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half. |

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 | 1.82 W |

Connection data

| | |
|---|--|
| Number of connections per level | 6 |
| Nominal cross section | 10 mm ² |
| Connection method | Push-in connection |
| Stripping length | 12 mm ... 14 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60998-2-2 |
| Conductor cross-section rigid | 0.5 mm ² ... 16 mm ² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 16 mm ² |
| Conductor cross-section, flexible [AWG] | 20 ... 6 (converted acc. to IEC) |
| Nominal cross section | 10 mm ² |
| Nominal current | 57 A |
| Maximum load current | 76 A (with a 16 mm ² conductor cross-section, rigid) |
| Maximum total current | 90 A (The load current of all connected conductors must not exceed the maximum total current.) |
| Nominal voltage | 450 V |

Connection cross sections directly pluggable

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

| | |
|---|--|
| Conductor cross-section rigid | 1 mm ² ... 16 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1 mm ² ... 10 mm ² |

Dimensions

| | |
|--------|---------|
| Width | 37 mm |
| Height | 24.5 mm |
| Depth | 25.1 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| 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 |
| 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 |

Mechanical properties

Mechanical data

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

Mechanical tests

Attachment on the carrier

| | |
|-------------------------|--|
| DIN rail/fixing support | NS 35/NS 15 |
| Result | Test passed |
| Note | <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> |

Environmental and real-life conditions

Needle-flame test

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

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

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 ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-----------------------------------|
| 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 60998-2-2 |
|----------------------------------|---------------|

Mounting

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

PTFIX 6X10/S GY - Distribution block

1082387

<https://www.phoenixcontact.com/us/products/1082387>



Drawings

Circuit diagram



1082387

<https://www.phoenixcontact.com/us/products/1082387>

Graphic



PTFIX 6X10/S GY - Distribution block





1082387


<https://www.phoenixcontact.com/us/products/1082387>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1082387>

|  CSA Approval ID: 158887 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 60 A | 20 - 6 | - |
| C | 600 V | 60 A | 20 - 6 | - |
| D | 600 V | 5 A | 20 - 6 | - |

|  IECEE CB Scheme Approval ID: DE1-63780 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 450 V | 57 A | - | - 10 |

|  VDE Zeichengenehmigung Approval ID: 40047798 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 450 V | 57 A | - | 0.5 - 10 |

|  cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 60 A | 20 - 6 | - |
| C | 600 V | 60 A | 20 - 6 | - |
| D | 600 V | 5 A | 20 - 6 | - |

| DNV Approval ID: TAE00002TT-05 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 500 V | 24 A | - | - |

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>



EAC

Approval ID: KZ7500651131219505

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

PTFIX 6X10/S GY - Distribution block



1082387

<https://www.phoenixcontact.com/us/products/1082387>

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

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.098 kg CO2e |
|---------|---------------|

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