# PTFIX 6X10/S-G RD - Distribution block

1082494

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Distribution block, bridged internally, nom. voltage: 450 V, nominal current: 57 A, number of connections: 6, connection method: Push-in connection, Rated cross section: 10 $mm^2$, cross section: 0.5 $mm^2$ - 16 $mm^2$, mounting type: adhesive, color: red

## Avantajele dumneavoastră

- 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

# Date tehnice

## 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 | 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 mm² |
| 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 mm² ... 16 mm² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross section flexible | 0.5 mm² ... 16 mm² |
| Conductor cross section, flexible [AWG] | 20 ... 6 (converted acc. to IEC) |
| Nominal current | 57 A |
| Maximum load current | 76 A (with a 16 mm² 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 |
| Nominal cross section | 10 mm² |

### Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section rigid | 1 mm² ... 16 mm² |
| Conductor cross section flexible | 1 mm² ... 10 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm² ... 10 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 1 mm² ... 6 mm² |

## Dimensions

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

## Material specifications

| | |
|---|---|
| Color | red (RAL 3001) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -40 °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 |

## 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 | 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. |
| | 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 | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)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) | -35 °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 | adhesive |

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