# PTFIX 6X10/S-NS35 GN - Distribution block

1082407

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Distribution block, Block with vertical alignment, nom. voltage: 800 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: NS 35/7,5, NS 35/15, color: green

## 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

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 | 8 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 |
| Connection in acc. with standard | IEC 60947-7-1 |
| 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) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 10 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm² ... 6 mm² |
| Nominal current | 57 A |
| Maximum load current | 76 A (with a 16 mm² conductor cross section, rigid) |
| Maximum total current | 90 A (The maximum load current of the individual terminal point must not be exceeded.) |
| Nominal voltage | 800 V |
| Nominal cross section | 10 mm² |

Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section rigid | 1 mm² ... 16 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 | 58.1 mm |
| Depth | 25.1 mm |
| Depth on NS 15 | 32.1 mm |
| Depth on NS 35/7,5 | 34.6 mm |

## Material specifications

| | |
|---|---|
| Color | green (RAL 6021) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| 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 |

## Electrical tests

### Surge voltage test

| | |
|---|---|
| Result | Test passed |
| 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

| | |
|---|---|
| DIN rail/fixing support | NS 35 |
| 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. |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross section/weight | 0.5 mm² / 0.3 kg |
| | 10 mm² / 2 kg |
| | 16 mm² / 2.9 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/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) | -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 |

## Mounting

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


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