

Distribution block - PTFIX 6/12X2,5-NS35A RD - 3273224

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Distribution block, Block with horizontal alignment and integrated supply, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 13, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 40.6 mm, height: 28.7 mm, color: red, mounting type: NS 35/7,5, NS 35/15

Why buy this product

- ✓ 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



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 8 STK |
| Minimum order quantity | 8 STK |
| GTIN |  4 055626 391755 |
| GTIN | 4055626391755 |

Technical data

General

| | |
|--|---|
| Note | Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories |
| Number of levels | 1 |
| Number of connections | 13 |
| Potentials | 1 |
| Nominal cross section | 2.5 mm ² |
| Nominal cross section feed-in | 6 mm ² |
| Color | red |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 6 kV |

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Technical data

General

| | |
|---|---|
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 1.31 W (the value is based on one connection block and is multiplied according to the pin assignment) |
| Maximum load current | 24 A |
| Nominal current I_N | 24 A |
| Nominal voltage U_N | 500 V |
| Maximum load current | 57 A (with 10 mm ² conductor cross section) |
| Nominal current I_N | 41 A (with 6 mm ² conductor cross section) |
| Nominal voltage U_N | 500 V |
| Open side panel | No |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Result of surge voltage test | Test passed |
| Surge voltage test setpoint | 9.8 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.89 kV |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Result of bending test | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 0.5 mm ² / 0.3 kg |
| | 6 mm ² / 1.4 kg |
| | 10 mm ² / 2 kg |
| | 0.14 mm ² / 0.2 kg |
| | 2.5 mm ² / 0.7 kg |
| | 4 mm ² / 0.9 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 0.5 mm ² |
| Tractive force setpoint | 20 N |
| Conductor cross section tensile test | 6 mm ² |
| Tractive force setpoint | 80 N |
| Conductor cross section tensile test | 10 mm ² |
| Tractive force setpoint | 90 N |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 5 N |
| Result of voltage-drop test | Test passed |

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General

| | |
|---|--|
| Requirements, voltage drop | ≤ 1.6 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 6 mm ² |
| Short-time current | 0.72 kA |
| Conductor cross section short circuit testing | 10 mm ² |
| Short-time current | 1.2 kA |
| Result of thermal test | Test passed |
| Ageing test for screwless modular terminal block temperature cycles | 192 |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Result of aging test | Test passed |
| Oscillation, broadband noise test result | Test passed |
| Test specification, oscillation, broadband noise | DIN EN 50155 (VDE 0115-200):2008-03 |
| Test spectrum | Service life test category 2, bogie-mounted |
| Test frequency | f ₁ = 5 Hz to f ₂ = 250 Hz |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12 g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Shock test result | Test passed |
| Test specification, shock test | DIN EN 50155 (VDE 0115-200):2008-03 |
| Shock form | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Static insulating material application in cold | -60 °C |
| Behavior in fire for rail vehicles (DIN 5510-2) | Test passed |
| Flame test method (DIN EN 60695-11-10) | V0 |
| Oxygen index (DIN EN ISO 4589-2) | >32 % |
| NF F16-101, NF F10-102 Class I | 2 |
| NF F16-101, NF F10-102 Class F | 2 |
| 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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| 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 |

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Technical data

General

| | |
|--|-------------|
| 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 |

Dimensions

| | |
|------------------|---------|
| Width | 40.6 mm |
| Length | 45.7 mm |
| Height | 28.7 mm |
| Height NS 35/7,5 | 30.8 mm |
| Height NS 35/15 | 38.3 mm |

Connection data

| | |
|--|----------------------|
| Feed-in connection | Feed-in stage |
| Connection method | Push-in connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 12 |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Min. AWG conductor cross section, flexible | 26 |
| Max. AWG conductor cross section, flexible | 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm ² |
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A3 |
| Connection method | Push-in connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 10 mm ² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 8 |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 6 mm ² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 10 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 6 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 6 mm ² |

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Technical data

Connection data

| | |
|---|---------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm ² |
| Stripping length | 10 mm ... 12 mm |

Standards and Regulations

| | |
|--|---|
| Connection in acc. with standard | IEC 60947-7-1 |
| | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / CSA / VDE approval of drawings / IECCE CB Scheme / DNV GL / cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------------------|-------|---|--------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | D | B | C |
| Nominal voltage UN | 600 V | 300 V | 300 V |
| Nominal current IN | 5 A | 50 A | 50 A |

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Approvals

| | | | |
|----------------------------|------|------|------|
| | D | B | C |
| mm ² /AWG/kcmil | 20-8 | 20-8 | 20-8 |

| | | | |
|----------------------------|-------|---|--------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | D | B | C |
| Nominal voltage UN | 600 V | 300 V | 300 V |
| Nominal current IN | 5 A | 50 A | 50 A |
| mm ² /AWG/kcmil | 20-8 | 20-8 | 20-8 |

| | | | |
|----------------------------|-------|---|-------|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| | D | B | C |
| Nominal voltage UN | 600 V | 300 V | 300 V |
| Nominal current IN | 5 A | 50 A | 50 A |
| mm ² /AWG/kcmil | 20-8 | 20-8 | 20-8 |

| | | | |
|--------------------------|--|---|----------|
| VDE approval of drawings | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40047797 |
| | | | |
| Nominal voltage UN | | 630 V | |
| Nominal current IN | | 41 A | |

| | | | |
|--------------------|--|---|-----------|
| IECEE CB Scheme | | http://www.iecee.org/ | DE1-60113 |
| | | | |
| Nominal voltage UN | | 630 V | |
| Nominal current IN | | 41 A | |

| | | |
|--------------------|---|------------|
| DNV GL | http://exchange.dnv.com/tari/ | TAE00002TT |
| | | |
| Nominal voltage UN | | 500 V |
| Nominal current IN | | 24 A |

| | | |
|------------------|--|---|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
|------------------|--|---|

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