

Feed-through terminal block - PT 16-TWIN N - 3208760

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Feed-through terminal block, Connection method: Push-in connection, Number of connections: 3, Cross section: 0.5 mm² - 25 mm², AWG: 20 - 4, Width: 12.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Why buy this product

- ✓ The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- ✓ Tested for railway applications



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 25 STK |
| GTIN |  4 046356 737555 |
| GTIN | 4046356737555 |

Technical data

General

| | |
|--|--------------------|
| Number of levels | 1 |
| Number of connections | 3 |
| Potentials | 1 |
| Nominal cross section | 16 mm ² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Rated surge voltage | 8 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 | 2.43 W |
| Maximum load current | 85 A (with 25 mm ² conductor cross section) |
| Nominal current I _N | 76 A |
| Nominal voltage U _N | 1000 V |
| Open side panel | Yes |
| 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 | 2.2 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 conductor cross section/weight | 0.5 mm ² / 0.3 kg |
| | 16 mm ² / 2.9 kg |
| | 25 mm ² / 4.5 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 | 16 mm ² |
| Tractive force setpoint | 100 N |
| Conductor cross section tensile test | 25 mm ² |
| Tractive force setpoint | 135 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 |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 16 mm ² |
| Short-time current | 1.92 kA |
| Conductor cross section short circuit testing | 25 mm ² |
| Short-time current | 3 kA |
| Result of aging test | Test passed |
| Ageing test for screwless modular terminal block temperature cycles | 192 |

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Technical data

General

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|---|--|
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| 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 | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| 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 |
| 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 | 12.2 mm |
| End cover width | 2.2 mm |
| Length | 100.2 mm |
| Height NS 35/7,5 | 52.6 mm |
| Height NS 35/15 | 60.1 mm |

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Technical data

Connection data

| | |
|---|---------------------|
| 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. | 25 mm ² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 4 |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 16 mm ² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 6 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 16 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. | 16 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 4 mm ² |
| Stripping length | 18 mm |
| Internal cylindrical gage | A7 |

Standards and Regulations

| | |
|--|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

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

Drawings

Circuit diagram



Approvals

Approvals

Approvals

VDE Zeichengenehmigung / IECCE CB Scheme / CSA / UL Recognized / cUL Recognized / EAC / EAC / BV / LR / DNV GL / PRS / cULus Recognized


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Approvals

Ex Approvals


ATEX / IECEx

Approval details

| | | | |
|--------------------------------|---|---|----------|
| VDE Zeichengenehmigung |  | http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx | 40040917 |
| | | | |
| mm ² /AWG/kcmil | 0.5-16 | | |
| Nominal current I _N | 76 A | | |
| Nominal voltage U _N | 1000 V | | |

| | | | |
|--------------------------------|---|---|-----------|
| IECEE CB Scheme |  | http://www.iecee.org/ | DE1-55471 |
| | | | |
| mm ² /AWG/kcmil | 0.5-16 | | |
| Nominal current I _N | 76 A | | |
| Nominal voltage U _N | 1000 V | | |

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|--------------------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ | 13631 |
| | | | |
| | B | C | |
| mm ² /AWG/kcmil | 20-4 | 20-4 | |
| Nominal current I _N | 70 A | 70 A | |
| Nominal voltage U _N | 600 V | 600 V | |

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|--------------------------------|---|---|--------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | | | |
| | B | C | |
| mm ² /AWG/kcmil | 20-4 | 20-4 | |
| Nominal current I _N | 85 A | 85 A | |
| Nominal voltage U _N | 600 V | 600 V | |

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Approvals

| | | | |
|----------------------------|--|---|--------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | | B | C |
| mm ² /AWG/kcmil | | 20-4 | 20-4 |
| Nominal current IN | | 85 A | 85 A |
| Nominal voltage UN | | 600 V | 600 V |

| | | |
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| EAC | | EAC-Zulassung |
|-----|--|---------------|

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|-----|--|---------------------|
| EAC | | 7500651.22.01.00246 |
|-----|--|---------------------|

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|----|--|---|-------------|
| BV | | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 37796/A2 BV |
|----|--|---|-------------|

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|----|--|---|---------------|
| LR | | http://www.lr.org/en | 12/20038 (E2) |
|----|--|---|---------------|

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| DNV GL | http://exchange.dnv.com/tari/ | TAE000010T |
|--------|---|------------|

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| PRS | | http://www.prs.pl/ | TE/2107/880590/16 |
|-----|--|---|-------------------|

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