

## Ground modular terminal block - PT 2,5-PE/L/L - 3210541

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Ground modular terminal block, nom. voltage: 500 V, nominal current: 20 A, connection method: Push-in connection, number of connections: 6, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- ✓ 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



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 50 pc   |
| Minimum order quantity               | 50 pc   |
| GTIN                                 | <br>4 0 4 6 3 5 6 4 2 2 6 2 8 |
| GTIN                                 | 4046356422628   |
| Weight per Piece (excluding packing) | 20.180 g  |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland  |
| Sales Key                            | BE2225  |

### Technical data

#### General

|  |                     |
|--|---------------------|
| Number of levels                       | 3                   |
| Number of connections                  | 6                   |
| Nominal cross section                  | 2.5 mm <sup>2</sup> |
| Color                                  | gray                |
| 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                                 | 0.77 W (the value is multiplied when connecting multiple levels) |
| Connection in acc. with standard  | IEC 60947-7-1/IEC 60947-7-2                                      |
| Nominal current $I_N$   | 20 A   |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross section, rigid)     |
| Nominal voltage $U_N$   | 500 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   | 7.3 kV   |
| Result of power-frequency withstand voltage test                                | Test passed  |
| Power frequency withstand voltage setpoint                                      | 1.89 kV  |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed  |
| Result of flexion and pull-out test   | Test passed  |
| Bending test rotation speed   | 10 rpm   |
| Bending test turns  | 135  |
| Bending test conductor cross section/weight                                     | 0.14 mm <sup>2</sup> / 0.2 kg                                    |
|   | 2.5 mm <sup>2</sup> / 0.7 kg                                     |
|   | 4 mm <sup>2</sup> / 0.9 kg                                       |
| Tensile test result   | Test passed  |
| Conductor cross section tensile test  | 0.14 mm <sup>2</sup>   |
| Tractive force setpoint   | 10 N   |
| Conductor cross section tensile test  | 2.5 mm <sup>2</sup>  |
| Tractive force setpoint   | 50 N   |
| Conductor cross section tensile test  | 4 mm <sup>2</sup>  |
| Tractive force setpoint   | 60 N   |
| Result of tight fit on support  | Test passed  |
| Tight fit on carrier  | NS 35  |
| Setpoint  | 1 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                                   | 2.5 mm <sup>2</sup>  |
| Short-time current  | 0.3 kA   |
| Conductor cross section short circuit testing                                   | 4 mm <sup>2</sup>  |

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|   |   |
|---|---|
| Short-time current  | 0.48 kA   |
| Result of aging test  | Test passed   |
| Ageing test for screwless modular terminal block temperature cycles     | 192   |
| 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 1, class B, body mounted |
| Test frequency  | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$      |
| ASD level   | $0.964 \text{ (m/s}^2\text{)}^2/\text{Hz}$          |
| Acceleration  | 0.58 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  | 5g  |
| Shock duration  | 30 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)) | 125 °C  |
| Static insulating material application in cold                          | -60 °C  |
| 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)                        | 27,5 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            | 5.2 mm  |
| End cover width  | 2.2 mm  |
| Length           | 102 mm  |
| Height NS 35/7,5 | 58 mm   |
| Height NS 35/15  | 65.5 mm |

#### Connection data

|      |  |
|------|--|
| Note | Please observe the current carrying capacity of the DIN rails. |
|------|--|

## Ground modular terminal block - PT 2,5-PE/L/L - 3210541

### Technical data

#### Connection data

|  |                      |
|--|----------------------|
| Connection method  | Push-in connection   |
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.   | 4 mm <sup>2</sup>    |
| Conductor cross section flexible min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.  | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.   | 26                   |
| Conductor cross section AWG max.   | 12                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 2.5 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 0.5 mm <sup>2</sup>  |
| Stripping length   | 8 mm ... 10 mm       |
| Internal cylindrical gage  | A3                   |

#### Ambient conditions

|  |   |
|--|---|
| Operating temperature                    | -60 °C ... 105 °C (max. short-term operating temperature 130°C)           |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |

#### Standards and Regulations

|                                  |     |
|----------------------------------|-----|
| Connection in acc. with standard | CSA |
|----------------------------------|-----|

#### Environmental Product Compliance

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



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