

## Installation ground terminal block - PIK 4-PE/L/NT - 2714006

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Installation ground terminal block, Screw connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- Design width of just 6.2 mm
- In one housing, the terminal block contains three terminal block types belonging to a single-phase circuit
- The lower level houses the protective conductor connection which automatically makes contact with the DIN rail when snapped on
- The phase connection is established by the phase conductor feed-through terminal block on the middle level
- The upper level contains the connection for the neutral conductor, which is connected to the neutral busbar via a stable disconnect slide

 RoHS

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 017918 061258 |
| GTIN         | 4017918061258   |

### Technical data

#### General

|  |   |
|--|---|
| Note                                   | Assembly instructions: For secure fastening of the neutral busbar, supports must be set at the beginning and end of each terminal strip as well as every 20 cm on longer terminal strips. |
| Number of levels                       | 3   |
| Number of connections                  | 5   |
| Nominal cross section                  | 4 mm <sup>2</sup>   |
| Color                                  | gray  |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V2  |
| Rated surge voltage                    | 4 kV  |
| Degree of pollution                    | 3   |
| Overvoltage category                   | III   |

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## Technical data

### General

|   |  |
|---|--|
| Insulating material group   | I  |
| Maximum power dissipation for nominal condition                         | 1.02 W (the value is multiplied when connecting multiple levels) |
| Maximum load current  | 32 A (with 4 mm <sup>2</sup> conductor cross section)            |
| Nominal current I <sub>N</sub>  | 32 A   |
| Nominal voltage U <sub>N</sub>  | 400 V (phase conductor/phase conductor)                          |
|   | 250 V (phase conductor/PE)                                       |
|   | 250 V (phase conductor/N)  |
| Open side panel   | Yes  |
| Terminal block mounting   | 0.5 Nm ... 0.6 Nm (PE foot with mounting screw, M2.5)            |
| 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            | 6.2 mm  |
| End cover width  | 1.5 mm  |
| Length           | 88 mm   |
| Height NS 35/7,5 | 51.5 mm |
| Height NS 35/15  | 59 mm   |

### Connection data

|                                    |  |
|------------------------------------|--|
| Note                               | Please observe the current carrying capacity of the DIN rails. |
| Connection method                  | Screw connection   |
| Connection in acc. with standard   | IEC 60947-7-1/IEC 60947-7-2                                    |
| Conductor cross section solid min. | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max. | 4 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 24   |
| Conductor cross section AWG max.   | 12   |

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## Technical data

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 4 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible  | 28                   |
| Max. AWG conductor cross section, flexible  | 12                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 4 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1 mm <sup>2</sup>    |
| Stripping length  | 9 mm                 |
| Screw thread  | M3                   |
| Tightening torque, min  | 0.5 Nm               |
| Tightening torque max   | 0.6 Nm               |

### Standards and Regulations

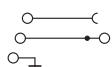
|  |                             |
|--|-----------------------------|
| Connection in acc. with standard                       | CUL                         |
|  | IEC 60947-7-1/IEC 60947-7-2 |
| Flammability rating according to UL 94                 | V2                          |
| Fire protection 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                 |
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### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

#### Circuit diagram



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