# Double-level terminal block - PTTB 2,5-LA 60 RD - 3211469

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Double-level terminal block, nom. voltage: 500 V, nominal current: 20 A, connection method: Push-in connection, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, length: 68 mm, width: 5.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15, nom. voltage: 500 V

## 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

RoHS

## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 STK |
| Minimum order quantity | 50 STK |
| GTIN | 4 046356 433778 |
| GTIN | 4046356433778 |

## Technical data

### General

| | |
|---|---|
| Note | The operating voltage is determined by the LED version. |
| Number of levels | 2 |
| Number of connections | 4 |
| Nominal cross section | 2.5 mm² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 4 kV |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 0.77 W (the value is multiplied when connecting multiple levels) |
| Nominal current $I_N$ | 20 A |

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## Technical data

### General

| | |
|---|---|
| Maximum load current | 24 A (with 4 mm² conductor cross section) |
| Nominal voltage $U_N$ | 500 V (the operating voltage is determined by the selected LED version) |
| Open side panel | Yes |
| 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 | 5.2 mm |
| Length | 68 mm |
| Height NS 35/7,5 | 47.5 mm |
| Height NS 35/15 | 55 mm |

### Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 4 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 2.5 mm² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm² |
| Stripping length | 10 mm |

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## Technical data

### Connection data

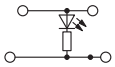
| | |
|---|---|
| Internal cylindrical gage | A3 |

### Standards and Regulations

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

## Drawings

Circuit diagram



## Approvals

### Approvals

Approvals

CSA / UL Recognized / cUL Recognized / LR / ABS / NK / BV / DNV GL / cULus Recognized

Ex Approvals

### Approval details

| | | | |
|---|---|---|---|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |

| | B | C |
|---|---|---|
| Nominal voltage UN | 60 V | 60 V |
| Nominal current IN | 20 A | 20 A |
| mm²/AWG/kcmil | 26-12 | 26-12 |

| | | | |
|---|---|---|---|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |

| | B | C |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 20 A | 20 A |

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## Approvals

| | B | C |
|---|---|---|
| mm²/AWG/kcmil | 24-12 | 24-12 |

| | | | |
|---|---|---|---|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |

| | B | C |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 20 A | 20 A |
| mm²/AWG/kcmil | 24-12 | 24-12 |

| | | | |
|---|---|---|---|
| LR | | http://www.lr.org/en | 10/20040 |

| | | | |
|---|---|---|---|
| ABS | | http://www.eagle.org/eagleExternalPortalWEB/ | 16-HG1591536-PDA |

| | | | |
|---|---|---|---|
| NK | | http://www.classnk.or.jp/hp/en/ | 14ME0912 |

| | | | |
|---|---|---|---|
| BV | | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 25278/B0 BV |

| | | |
|---|---|---|
| DNV GL | http://exchange.dnv.com/tari/ | TAE00000UD_01 |

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



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