

## Double-level terminal block - PTTBS 2,5-PV - 3210211

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Double-level terminal block, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Connection type: Push-in connection, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- 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                         | 1 pc     |
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 14.78 g  |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Poland   |

### Technical data

#### General

|   |                     |
|---|---------------------|
| Number of levels                        | 2                   |
| Number of connections                   | 4                   |
| Nominal cross section                   | 2.5 mm <sup>2</sup> |
| Color                                   | gray                |
| Insulating material                     | PA                  |
| Inflammability class according to UL 94 | V0                  |
| Rated surge voltage                     | 6 kV                |
| Pollution degree                        | 3                   |
| Surge voltage category                  | III                 |
| Insulating material group               | I                   |

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### Technical data

#### General

|   |   |
|---|---|
| Connection in acc. with standard  | IEC 60947-7-1   |
| Current   | 26 A  |
| Additional text   | (for 4 mm <sup>2</sup> conductor cross section) The total current of all connected conductors must not exceed the maximum load current. |
| Nominal current I <sub>N</sub>  | 22 A  |
| Nominal voltage U <sub>N</sub>  | 500 V   |
| Open side panel   | ja  |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11   |
| Back of the hand protection   | guaranteed  |
| Finger protection   | guaranteed  |
| Surge voltage test setpoint   | 7.3 kV  |
| Result of surge voltage test  | Test passed   |
| Power frequency withstand voltage setpoint                                      | 1.89 kV   |
| Result of power-frequency withstand voltage test                                | Test passed   |
| Checking the mechanical stability of terminal points (5 x conductor connection) | 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  |
| Result of bending test  | 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  |
| Tensile test result   | Test passed   |
| Tight fit on carrier  | NS 35   |
| Setpoint  | 1 N   |
| Result of tight fit test  | Test passed   |
| Requirements, voltage drop  | ≤ 3.2 mV  |
| Result of voltage drop test   | Test passed   |
| Temperature-rise test   | 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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### Technical data

#### General

|   |   |
|---|---|
| Short-time current  | 0.48 kA   |
| Short circuit stability result  | Test passed   |
| Ageing test for screwless modular terminal block temperature cycles   | 192   |
| Result of aging test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration    | 30 s  |
| Result of thermal test  | 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                                   |
| Oscillation, broadband noise test result                              | Test passed   |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Shock form  | Half-sine   |
| Acceleration  | 5 g   |
| Shock duration  | 30 ms   |
| Number of shocks per direction  | 3   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)                   |
| Shock test result   | Test passed   |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C  |
| Static insulating material application in cold                        | -60 °C  |

#### Dimensions

|                  |         |
|------------------|---------|
| Width            | 5.2 mm  |
| Length           | 78 mm   |
| Height NS 35/7,5 | 55 mm   |
| Height NS 35/15  | 62.5 mm |

#### 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. | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 26                   |
| Conductor cross section AWG max.      | 12                   |

## Double-level terminal block - PTTBS 2,5-PV - 3210211

### Technical data

#### Connection data

|   |                      |
|---|----------------------|
| 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>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>  |
| Minimum stripping length  | 8 mm                 |
| Maximum stripping length  | 10 mm                |
| Internal cylindrical gage   | A3                   |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

### Approvals

#### Approvals

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## Approvals

Approvals

EAC / EAC / NK / NK / VDE Zeichengenehmigung / IECEx CB Scheme

Ex Approvals

ATEX

Approvals submitted


## Approval details


EAC

EAC

NK

NK

|  |         |
|--|---------|
| VDE Zeichengenehmigung  |         |
| mm <sup>2</sup> /AWG/kcmil   | 0.2-2.5 |
| Nominal current I <sub>N</sub>   | 22 A    |
| Nominal voltage U <sub>N</sub>   | 500 V   |

|   |         |
|---|---------|
| IECEx CB Scheme  |         |
| mm <sup>2</sup> /AWG/kcmil  | 0.2-2.5 |
| Nominal voltage U <sub>N</sub>  | 500 V   |

## Drawings

## Double-level terminal block - PTTBS 2,5-PV - 3210211

Circuit diagram

