

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

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Double-level terminal block, With equipotential bond, 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                  |
| Flammability rating according to UL 94 | V0                  |
| Rated surge voltage                    | 6 kV                |
| Degree of pollution                    | 3                   |
| Overvoltage category                   | III                 |
| Insulating material group              | I                   |

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## Technical data

### General

|                                                                                 |                                                                                                                                                |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection in acc. with standard                                                | IEC 60947-7-1                                                                                                                                  |
| Nominal current $I_N$                                                           | 22 A                                                                                                                                           |
| Maximum load current                                                            | 26 A ((for 4 mm <sup>2</sup> conductor cross section) The total current of all connected conductors must not exceed the maximum load current.) |
| 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 bending 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                                                      | ≤ 6,4 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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### Technical data

#### General

|                                                                         |                                                |
|-------------------------------------------------------------------------|------------------------------------------------|
| 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 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)) | 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                   |

#### Standards and Regulations

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

### 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 |
| eCl@ss 9.0 | 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 |

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

### Approvals

#### Approvals

#### Approvals

EAC / EAC / VDE Zeichengenehmigung / IECEx CB Scheme

#### Ex Approvals

ATEX

#### Approvals submitted

### Approval details

|     |
|-----|
| EAC |
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| EAC |
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|                                                                                                            |         |
|------------------------------------------------------------------------------------------------------------|---------|
| VDE Zeichengenehmigung  |         |
| mm²/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  |         |
| mm²/AWG/kcmil                                                                                       | 0.2-2.5 |
| Nominal voltage U <sub>N</sub>                                                                      | 500 V   |

### Drawings

#### Circuit diagram



