

## Disconnect terminal block - PTT 2,5-L/TG - 3210230

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Disconnect terminal block, with isolating plug, Connection type: Push-in connection, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Nominal current: 16 A, Nominal voltage: 400 V, Length: 92.4 mm, Width: 5.2 mm, Color: gray, Assembly: 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) | 17.4 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                |
| Pollution degree                       | 3                   |
| Overvoltage category                   | III                 |
| Insulating material group              | I                   |

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## Technical data

### General

|                                                                                 |                                                       |
|---------------------------------------------------------------------------------|-------------------------------------------------------|
| Connection in acc. with standard                                                | IEC 60947-7-1                                         |
| Maximum load current                                                            | 16 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                                  | 16 A                                                  |
| Nominal voltage U <sub>N</sub>                                                  | 400 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                                           |
| 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                                                |
| Short circuit stability result                                                  | Test passed                                           |
| Ageing test for screwless modular terminal block temperature cycles             | 192                                                   |
| Result of aging test                                                            | Test passed                                           |

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## Technical data

### General

|                                                                       |                                                |
|-----------------------------------------------------------------------|------------------------------------------------|
| 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 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                              |
| Oscillation, broadband noise 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.)              |
| 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   |
| End cover width  | 0.8 mm   |
| Length           | 92.4 mm  |
| Height           | 45.80 mm |
| Height NS 35/7,5 | 47.4 mm  |
| Height NS 35/15  | 54.9 mm  |

### Connection data

|                                            |                      |
|--------------------------------------------|----------------------|
| Connection method                          | Push-in connection   |
| Connection in acc. with standard           | IEC 60947-7-1        |
| Conductor cross section solid min.         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.         | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.           | 26                   |
| Conductor cross section AWG max.           | 12                   |
| Conductor cross section flexible min.      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.      | 2.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible | 26                   |

## Disconnect terminal block - PTT 2,5-L/TG - 3210230

### Technical data

#### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Max. AWG conductor cross section, flexible                                              | 14                   |
| 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>  |
| Conductor cross section AWG min.                                                        | 26                   |
| Conductor cross section AWG max.                                                        | 12                   |
| Stripping length                                                                        | 8 mm ... 10 mm       |
| Internal cylindrical gage                                                               | A3                   |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| 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 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

## Disconnect terminal block - PTT 2,5-L/TG - 3210230

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

#### Approvals submitted

#### Approval details

| CSA  |       |       |
|---------------------------------------------------------------------------------------|-------|-------|
|                                                                                       | B     | C     |
| mm <sup>2</sup> /AWG/kcmil                                                            | 26-12 | 26-12 |
| Nominal current I <sub>N</sub>                                                        | 16 A  | 16 A  |
| Nominal voltage U <sub>N</sub>                                                        | 300 V | 300 V |

| UL Recognized  |       |       |   |
|---------------------------------------------------------------------------------------------------|-------|-------|---|
|                                                                                                   |       | B     | C |
| mm <sup>2</sup> /AWG/kcmil                                                                        | 26-12 | 26-12 |   |
| Nominal current I <sub>N</sub>                                                                    | 16 A  | 16 A  |   |
| Nominal voltage U <sub>N</sub>                                                                    | 300 V | 300 V |   |

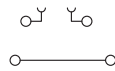
| cUL Recognized  |       |       |   |
|----------------------------------------------------------------------------------------------------|-------|-------|---|
|                                                                                                    |       | B     | C |
| mm <sup>2</sup> /AWG/kcmil                                                                         | 26-12 | 26-12 |   |
| Nominal current I <sub>N</sub>                                                                     | 16 A  | 16 A  |   |
| Nominal voltage U <sub>N</sub>                                                                     | 300 V | 300 V |   |

|                                                                                                      |  |  |  |
|------------------------------------------------------------------------------------------------------|--|--|--|
| cULus Recognized  |  |  |  |
|------------------------------------------------------------------------------------------------------|--|--|--|

## Disconnect terminal block - PTT 2,5-L/TG - 3210230

### Drawings

Circuit diagram



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