

## Feed-through terminal block - PT 6 - 3211813

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Feed-through terminal block, Connection method: Push-in connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 8.2 mm, Height: 42.2 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
- ✓ Tested for railway applications



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 15.6 g   |
| Custom tariff number                 | 85369010 |
| Country of origin                    | China    |

### Technical data

#### General

|  |                   |
|--|-------------------|
| Number of levels                       | 1                 |
| Number of connections                  | 2                 |
| Nominal cross section                  | 6 mm <sup>2</sup> |
| Color                                  | gray              |
| Insulating material                    | PA                |
| Flammability rating according to UL 94 | V0                |
| Area of application                    | Railway industry  |

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### Technical data

#### General

|   |  |
|---|--|
|   | Mechanical engineering                                 |
|   | Plant engineering                                      |
| Rated surge voltage   | 8 kV   |
| Pollution degree  | 3  |
| Overvoltage category  | III  |
| Insulating material group   | I  |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Maximum load current  | 52 A (with 10 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 41 A   |
| Nominal voltage U <sub>N</sub>  | 1000 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   |
| Result of surge voltage test  | Test passed  |
| Surge voltage test setpoint   | 9.8 kV   |
| Result of power-frequency withstand voltage test  | Test passed  |
| Power frequency withstand voltage setpoint  | 2.2 kV   |
| Result of the test for 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   | 0.5 mm <sup>2</sup> / 0.3 kg                           |
|   | 6 mm <sup>2</sup> / 1.4 kg                             |
|   | 10 mm <sup>2</sup> / 2 kg                              |
| Tensile test result   | Test passed  |
| Conductor cross section tensile test  | 0.5 mm <sup>2</sup>                                    |
| Tractive force setpoint   | 20 N   |
| Conductor cross section tensile test  | 6 mm <sup>2</sup>                                      |
| Tractive force setpoint   | 80 N   |
| Conductor cross section tensile test  | 10 mm <sup>2</sup>                                     |
| Tractive force setpoint   | 90 N   |
| Result of tight fit on support  | Test passed  |
| Tight fit on carrier  | NS 35  |
| Setpoint  | 5 N  |
| Result of voltage-drop test   | Test passed  |

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## Technical data

### General

|   |  |
|---|--|
| Result of temperature-rise test   | Test passed                                      |
| Short circuit stability result  | Test passed                                      |
| Conductor cross section short circuit testing                           | 6 mm <sup>2</sup>                                |
| Short-time current  | 0.72 kA  |
| Conductor cross section short circuit testing                           | 10 mm <sup>2</sup>                               |
| Short-time current  | 1.2 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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz |
| ASD level   | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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)) | 130 °C   |
| Static insulating material application in cold                          | -60 °C   |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 8.2 mm  |
| End cover width  | 2.2 mm  |
| Length           | 57.7 mm |
| Height           | 42.2 mm |
| Height NS 35/7,5 | 43.5 mm |
| Height NS 35/15  | 51 mm   |

### Connection data

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## Technical data

### Connection data

|   |                     |
|---|---------------------|
| Connection method   | Push-in connection  |
| Connection in acc. with standard  | IEC 60947-7-1       |
| Conductor cross section solid min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.  | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 20                  |
| Conductor cross section AWG max.  | 8                   |
| Conductor cross section flexible min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 6 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible  | 20                  |
| Max. AWG conductor cross section, flexible  | 10                  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 6 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Stripping length  | 12 mm               |
| Internal cylindrical gage   | A5                  |

### 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 | 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 |
| eCl@ss 9.0 | 27141120 |

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## Classifications

### 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

#### Approvals


UL Recognized / cUL Recognized / VDE Zeichengenehmigung / LR / GL / CSA / IECEx CB Scheme / NK / BV / EAC / EAC / ABS / cULus Recognized

#### Ex Approvals

IECEx / ATEX / EAC Ex


#### Approvals submitted

### Approval details


|   |       |       |
|---|-------|-------|
| UL Recognized  |       |       |
|   | B     | C     |
| mm <sup>2</sup> /AWG/kcmil  | 20-8  | 20-8  |
| Nominal current I <sub>N</sub>  | 40 A  | 40 A  |
| Nominal voltage U <sub>N</sub>  | 600 V | 600 V |

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## Approvals

cUL Recognized 


|                                | B     | C     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 20-8  | 20-8  |
| Nominal current I <sub>N</sub> | 40 A  | 40 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

VDE Zeichengenehmigung 


|                                |        |
|--------------------------------|--------|
| mm <sup>2</sup> /AWG/kcmil     | 0.5-6  |
| Nominal voltage U <sub>N</sub> | 1000 V |

LR

GL

CSA 

|                                | B     | C     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 20-8  | 20-8  |
| Nominal current I <sub>N</sub> | 40 A  | 40 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

IECEE CB Scheme 

|                                |        |
|--------------------------------|--------|
| mm <sup>2</sup> /AWG/kcmil     | 6      |
| Nominal voltage U <sub>N</sub> | 1000 V |

NK

BV


## Feed-through terminal block - PT 6 - 3211813

### Approvals

EAC

EAC

ABS

cULus Recognized  US

### Drawings

Circuit diagram

