

## High-current terminal block - PTPOWER 95 - 3260100

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High-current terminal block, Connection method: Push-in connection, Cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, AWG: 4 - 3/0, Width: 25 mm, Color: gray, Mounting type: NS 35/15

### Product Features

- ✓ Quick and easy connection is now also possible for large conductors with the high-current terminal block
- ✓ 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 enables wiring in a confined space
- ✓ In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- ✓ Tested for railway applications



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Minimum order quantity               | 10 pc     |
| Weight per Piece (excluding packing) | 198.0 GRM |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland    |

### Technical data

#### General

|   |                        |
|---|------------------------|
| Number of levels                        | 1                      |
| Number of connections                   | 2                      |
| Color                                   | gray                   |
| Insulating material                     | PA                     |
| Inflammability class according to UL 94 | V0                     |
| Area of application                     | Railway industry       |
|   | Mechanical engineering |
|   | Plant engineering      |

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## Technical data

### General

|   |   |
|---|---|
| Maximum load current  | 232 A (with 95 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage   | 8 kV  |
| Pollution degree  | 3   |
| Surge voltage category  | III   |
| Insulating material group   | I   |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Maximum load current  | 232 A (with 95 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 232 A   |
| Nominal voltage U <sub>N</sub>  | 1500 V  |
| Maximum load current  | 232 A (with 95 mm <sup>2</sup> conductor cross section) |
| Open side panel   | nein  |
| 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   | 9.8 kV  |
| Result of surge voltage test  | Test passed   |
| 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                                     | 25 mm <sup>2</sup> / 4.5 kg                             |
|   | 95 mm <sup>2</sup> /14 kg                               |
| Result of bending test  | Test passed   |
| Conductor cross section tensile test  | 25 mm <sup>2</sup>                                      |
| Tractive force setpoint   | 135 N   |
| Conductor cross section tensile test  | 95 mm <sup>2</sup>                                      |
| Tractive force setpoint   | 351 N   |
| Tensile test result   | Test passed   |
| Tight fit on carrier  | NS 35/15  |
| Setpoint  | 15 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                                   | 95 mm <sup>2</sup>                                      |
| Short-time current  | 11.4 kA   |

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## Technical data

### General

|   |  |
|---|--|
| 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 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           | 25 mm    |
| Length          | 105.5 mm |
| Height NS 35/15 | 108.7 mm |

### Connection data

|  |                    |
|--|--------------------|
| Connection in acc. with standard           | IEC 60947-7-1      |
| Connection method                          | Push-in connection |
| Conductor cross section solid min.         | 25 mm <sup>2</sup> |
| Conductor cross section solid max.         | 95 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min.     | 4                  |
| Conductor cross section AWG/kcmil max      | 3/0                |
| Conductor cross section stranded min.      | 25 mm <sup>2</sup> |
| Conductor cross section stranded max.      | 95 mm <sup>2</sup> |
| Min. AWG conductor cross section, stranded | 4                  |

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## Technical data

### Connection data

|  |                    |
|--|--------------------|
| Max. AWG conductor cross section, stranded                                 | 4/0                |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 95 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 95 mm <sup>2</sup> |
| Cross section with insertion bridge, solid max.                            | 95 mm <sup>2</sup> |
| Cross section with insertion bridge, stranded max.                         | 70 mm <sup>2</sup> |
| Cross section with insertion bridge, solid max.                            | 95 mm <sup>2</sup> |
| Cross section with insertion bridge, stranded max.                         | 70 mm <sup>2</sup> |
| Stripping length   | 40 mm              |

## 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 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

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

IECEX / ATEX / EAC Ex

Approvals submitted

## Approval details

|                                |        |
|--------------------------------|--------|
| UL Recognized                  |        |
| mm <sup>2</sup> /AWG/kcmil     | 4-4/0  |
| Nominal current I <sub>N</sub> | 230 A  |
| Nominal voltage U <sub>N</sub> | 1000 V |

|                                |        |
|--------------------------------|--------|
| cUL Recognized                 |        |
|                                | C      |
| mm <sup>2</sup> /AWG/kcmil     | 4-4/0  |
| Nominal current I <sub>N</sub> | 230 A  |
| Nominal voltage U <sub>N</sub> | 1000 V |

EAC

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

## Drawings

Circuit diagram



