

# PTPOWER 95-3L/FE-F - High-current terminal block



3260127

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting type: direct screw connection, color: gray/black-yellow

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## Your advantages

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

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 4                           |
| Pitch                 | 25 mm                       |
| Number of connections | 8                           |
| Number of rows        | 1                           |
| Potentials            | 4                           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 7.54 W |

### Connection data

|                                                                   |                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------|
| Number of connections per level                                   | 2                                                       |
| Nominal cross section                                             | 95 mm <sup>2</sup>                                      |
| Stripping length                                                  | 40 mm                                                   |
| Connection in acc. with standard                                  | IEC 60947-7-1                                           |
| Conductor cross section rigid                                     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Cross section AWG                                                 | 2 ... 3/0 (converted acc. to IEC)                       |
| Conductor cross section flexible                                  | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Conductor cross section, flexible [AWG]                           | 2 ... 3/0 (converted acc. to IEC)                       |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Cross-section with insertion bridge, rigid                        | 70 mm <sup>2</sup>                                      |
| Cross-section with insertion bridge, flexible                     | 70 mm <sup>2</sup>                                      |
| Nominal current                                                   | 232 A                                                   |
| Maximum load current                                              | 232 A (with 95 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                   | 1000 V                                                  |

### Connection cross sections directly pluggable

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Conductor cross section rigid                                     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                         |
|-----------------------------|-------------------------|
| Identification              | Ex II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C       |

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|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Ex-certified accessories          | 1206612 SZF 3-1,0X5,5                   |
| List of bridges                   | Insertion bridge / EB 2-25/PT / 3260157 |
| Bridge data                       | 144 A / 50 mm <sup>2</sup>              |
|                                   | 174 A / 70 mm <sup>2</sup>              |
| List of bridges                   | Insertion bridge / EB 3-25/PT / 3260160 |
| Bridge data                       | 144 A / 50 mm <sup>2</sup>              |
|                                   | 174 A / 70 mm <sup>2</sup>              |
| Ex temperature increase           | 40 K (237 A / 95 mm <sup>2</sup> )      |
| Rated voltage                     | 1100 V                                  |
| at bridging with insertion bridge | 1100 V                                  |
| for bridging with bridge          | 1100 V                                  |
| Rated insulation voltage          | 1000 V                                  |
| output                            | (Permanent)                             |

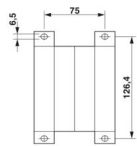
## Ex level General

|                      |        |
|----------------------|--------|
| Rated current        | 215 A  |
| Maximum load current | 215 A  |
| Contact resistance   | 0.1 mΩ |

## Ex connection data General

|                                                                                      |                                           |
|--------------------------------------------------------------------------------------|-------------------------------------------|
| Ferrule length                                                                       | 40 mm                                     |
| Stripping length                                                                     | 40 mm                                     |
| Nominal cross section                                                                | 95 mm <sup>2</sup>                        |
| Rated cross section AWG                                                              | 4/0                                       |
| Connection capacity rigid                                                            | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Connection capacity AWG                                                              | 4 ... 4/0                                 |
| Conductor cross section flexible, with ferrule without plastic sleeve min.           | 25 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule without plastic sleeve max.           | 95 mm <sup>2</sup>                        |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 4 ... 4/0                                 |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 100 mm                                                                               |
| Height              | 139.1 mm                                                                             |
| Depth               | 99.8 mm                                                                              |
| Drill hole spacing  | 126.4 mm                                                                             |
| Hole diameter       | 6.5 mm                                                                               |
| Pitch               | 25 mm                                                                                |

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## Material specifications

|                                                                         |                   |
|-------------------------------------------------------------------------|-------------------|
| Color                                                                   | gray/black-yellow |
| Flammability rating according to UL 94                                  | V0                |
| Insulating material group                                               | I                 |
| Insulating material                                                     | PA                |
| Static insulating material application in cold                          | -60 °C            |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C            |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C            |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3       |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3       |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3       |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3       |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg        |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed            |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed            |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed            |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq 45$ K |
| Result                                          | Test passed                         |
| Short-time withstand current 95 mm <sup>2</sup> | 11.4 kA                             |
| Result                                          | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 6 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

### Technical data

|                    |          |
|--------------------|----------|
| Drill hole spacing | 126.4 mm |
|--------------------|----------|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

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## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35/15    |
| Test force setpoint     | 15 N        |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Rotation speed                 | 10 rpm                                                   |
| Revolutions                    | 135                                                      |
| Conductor cross section/weight | 25 mm <sup>2</sup> / 4.5 kg<br>95 mm <sup>2</sup> /14 kg |
| Result                         | Test passed                                              |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Service life test category 2, bogie-mounted    |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |

### Ambient conditions

|                                         |                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)         | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)                                                     |
| Ambient temperature (assembly)          | -5 °C ... 70 °C                                                                                                              |

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|                                          |                 |
|------------------------------------------|-----------------|
| Ambient temperature (actuation)          | -5 °C ... 70 °C |
| Permissible humidity (operation)         | 20 % ... 90 %   |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |                         |
|---------------|-------------------------|
| Mounting type | direct screw connection |
|---------------|-------------------------|

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