

# PTPOWER 35-FE-F - High-current terminal block



3212082

<https://www.phoenixcontact.com/de/produkte/3212082>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: direct screw connection, color: 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
- The compact design and front connection enable 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
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 1                           |
| Pitch                 | 16 mm                       |
| Number of connections | 2                           |
| Number of rows        | 1                           |
| Potentials            | 1                           |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 4.06 W |

### Connection data

|                                                                   |                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------|
| Number of connections per level                                   | 2                                                       |
| Nominal cross section                                             | 35 mm <sup>2</sup>                                      |
| Rated cross section AWG                                           | 2                                                       |
| Stripping length                                                  | 25 mm                                                   |
| Conductor cross section rigid                                     | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>              |
| Cross section AWG                                                 | 12 ... 2 (converted acc. to IEC)                        |
| Conductor cross section flexible                                  | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>              |
| Conductor cross section, flexible [AWG]                           | 12 ... 2 (converted acc. to IEC)                        |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>              |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>              |
| Nominal current                                                   | 125 A                                                   |
| Maximum load current                                              | 125 A (with 35 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                   | 1000 V                                                  |
| Nominal cross section                                             | 35 mm <sup>2</sup>                                      |

### Connection cross sections directly pluggable

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Conductor cross section rigid                                     | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Conductor cross section, rigid [AWG]                              | 12 ... 2 (converted acc. to IEC)           |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 2.5 mm <sup>2</sup> ... 35 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               |
|                          | 1201662 E/AL-NS 35                  |
| List of bridges          | Plug-in bridge / FBS 2-16 / 3005963 |
| Bridge data              | 89 A / 25 mm <sup>2</sup>           |
| Ex temperature increase  | 40 K (120 A/35 mm <sup>2</sup> )    |
| Rated voltage            | 690 V                               |
| for bridging with bridge | 690 V                               |
| Rated insulation voltage | 660 V                               |
| output                   | (Permanent)                         |

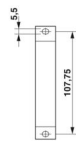
## Ex level General

|                      |         |
|----------------------|---------|
| Rated current        | 109 A   |
| Maximum load current | 109 A   |
| Contact resistance   | 0.16 mΩ |

## Ex connection data General

|                                                                            |                                            |
|----------------------------------------------------------------------------|--------------------------------------------|
| Ferrule length                                                             | 25 mm                                      |
| Stripping length                                                           | 25 mm                                      |
| Nominal cross section                                                      | 35 mm <sup>2</sup>                         |
| Rated cross section AWG                                                    | 2                                          |
| Connection capacity rigid                                                  | 2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Connection capacity AWG                                                    | 12 ... 2                                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 6 mm <sup>2</sup>                          |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 35 mm <sup>2</sup>                         |

## Dimensions

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 16 mm                                                                               |
| Height              | 120.2 mm                                                                            |
| Depth               | 68.3 mm                                                                             |
| Drill hole spacing  | 108 mm                                                                              |
| Hole diameter       | 5.5 mm                                                                              |
| Pitch               | 16 mm                                                                               |

## Material specifications

|                                        |              |
|----------------------------------------|--------------|
| Color                                  | black/yellow |
| Flammability rating according to UL 94 | V0           |
| Insulating material group              | I            |
| Insulating material                    | PA           |

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|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Static insulating material application in cold                          | -60 °C      |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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)                        | 28 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      |

## Mechanical properties

### Mechanical data

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

### Technical data

|                    |        |
|--------------------|--------|
| Drill hole spacing | 108 mm |
|--------------------|--------|

## Environmental and real-life conditions

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

## Mounting

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

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