

PTPOWER 35-3L/FE-F - High-current terminal block



3212075

<https://www.phoenixcontact.com/us/products/3212075>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: direct screw connection, color: gray/black-yellow

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- 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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3212075 |
| Packing unit | 2 pc |
| Minimum order quantity | 2 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| GTIN | 4046356869805 |
| Weight per piece (including packing) | 382 g |
| Weight per piece (excluding packing) | 358.4 g |
| Customs tariff number | 85369010 |
| Country of origin | TR |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | High current terminal block |
| Number of positions | 4 |
| Pitch | 16 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 | 4.06 W |

Connection data

| | |
|---|---|
| Number of connections per level | 8 |
| Nominal cross section | 35 mm ² |
| Rated cross section AWG | 2 |
| Connection method | PowerTurn connection |
| Stripping length | 25 mm |
| Conductor cross-section rigid | 2.5 mm ² ... 35 mm ² |
| Cross section AWG | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible | 2.5 mm ² ... 35 mm ² |
| Conductor cross-section, flexible [AWG] | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm ² ... 35 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm ² ... 35 mm ² |
| Nominal cross section | 35 mm ² |
| Nominal current | 125 A |
| Maximum load current | 125 A (with 35 mm ² conductor cross-section) |
| Nominal voltage | 1000 V |

Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross-section rigid | 2.5 mm ² ... 35 mm ² |
| Conductor cross-section, rigid [AWG] | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm ² ... 35 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm ² ... 35 mm ² |

Ex data

Rated data (ATEX/IECEx)

| | |
|----------------|------------------------|
| Identification | Ⓔ II 2 GD Ex eb IIC Gb |
|----------------|------------------------|

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| | |
|-----------------------------|-------------------------------------|
| Operating temperature range | -60 °C ... 110 °C |
| 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 ²) |
| Ex temperature increase | 40 K (120 A/35 mm ²) |
| for bridging with bridge | 690 V |
| Rated insulation voltage | 660 V |
| output | (Permanent) |

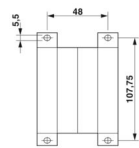
Ex level General

| | |
|----------------------|---------|
| Rated voltage | 690 V |
| 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 ² |
| Rated cross section AWG | 2 |
| Connection capacity rigid | 2.5 mm ² ... 35 mm ² |
| Connection capacity AWG | 12 ... 2 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 6 mm ² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 35 mm ² |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 64 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 | multicolored (RAL -) |
| | gray (RAL 7042) |
| | black (RAL 9005) |

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| | |
|---|-------------------|
| | yellow (RAL 1018) |
| 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 |

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, not exceeding 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 |
|---------------|-------------------------|

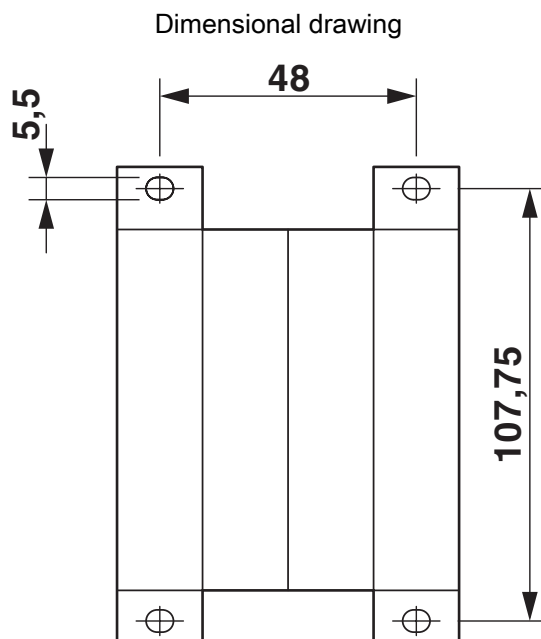
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Drawings



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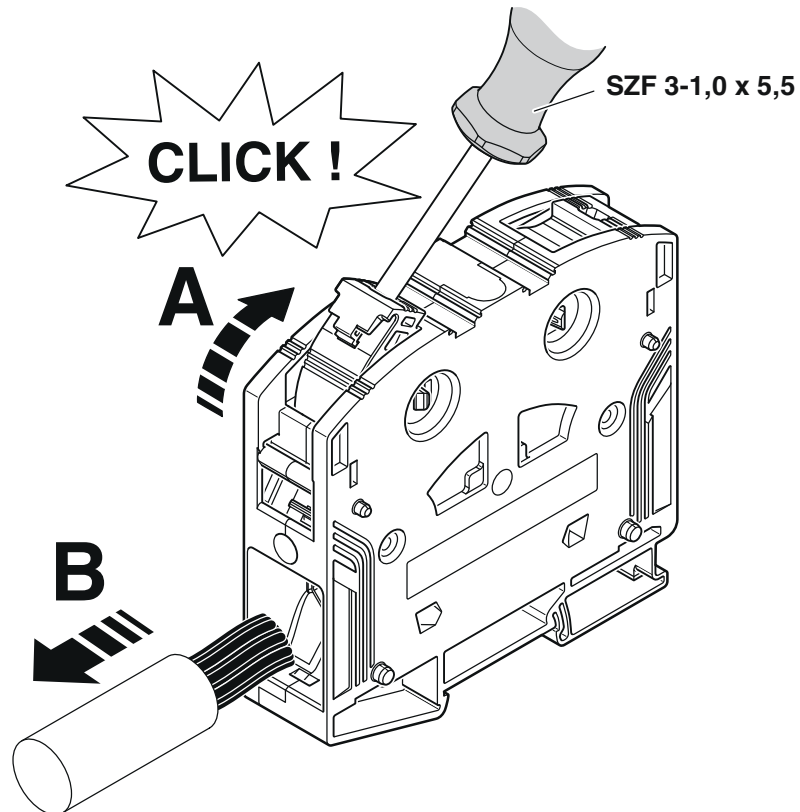
<https://www.phoenixcontact.com/us/products/3212075>

Schematic diagram

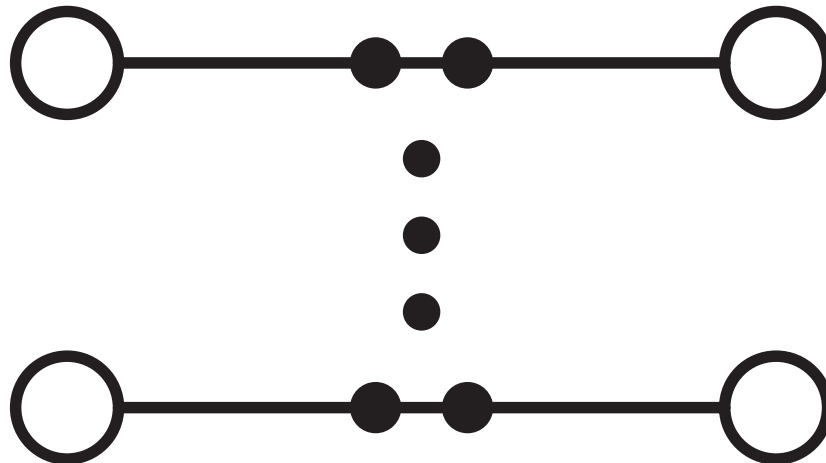
PTPOWER



| | | |
|----------------|--|-------|
| AGK 10-PTPOWER | 0,5 mm ² ... 16 mm ² | 18 mm |
| PTPOWER 35 | 2,5 mm ² ... 35 mm ² | 25 mm |
| PTPOWER 50 | 10 mm ² ... 50 mm ² | 32 mm |
| PTPOWER 95 | 25 mm ² ... 95 mm ² | 40 mm |
| PTPOWER 185 | 95 mm ² ... 185 mm ² | 40 mm |



Circuit diagram



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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212075>

|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 115 A | 14 - 2 | - |
| C | 1000 V | 115 A | 14 - 2 | - |

|  EAC Approval ID: RU C-DE.BL08.B.00644 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

| DNV Approval ID: TAE0000029 | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  cUL Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| C | 1000 V | 115 A | 14 - 2 | - |

|  UL Recognized Approval ID: E60425 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| E | 1000 V | 115 A | 14 - 2 | - |

|  EAC Approval ID: KZ7500651131219505 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  UKCA-EX Approval ID: CML 22UKEX1227U | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  IECEx Approval ID: IECExSEV14.0013U | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |


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| | | | | |
|-----------------------------|-------|-------|---|----------|
| Only rigid conductors | 690 V | 109 A | - | 2.5 - 35 |
| multi-stranded with ferrule | 690 V | 109 A | - | 6 - 35 |

|  ATEX Approval ID: SEV14ATEX0156U | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Only rigid conductors | 690 V | 109 A | - | 2.5 - 35 |
| multi-stranded with ferrule | 690 V | 109 A | - | 6 - 35 |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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