

G 5/12-EX - Device terminal block



2703208

<https://www.phoenixcontact.com/us/products/2703208>

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Device terminal block, nom. voltage: 275 V, nominal current: 30 A, number of connections: 24, number of positions: 12, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 4 mm², mounting type: direct screw connection, color: gray

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2703208 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE12 |
| Product key | BE1265 |
| GTIN | 4017918061104 |
| Weight per piece (including packing) | 79.31 g |
| Weight per piece (excluding packing) | 69 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | Feed-through terminal block |
| Number of positions | 12 |
| Number of connections | 24 |
| Number of rows | 1 |
| Potentials | 12 |

Insulation characteristics

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

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

Connection data

| | |
|---|---|
| Number of connections per level | 24 |
| Nominal cross section | 4 mm ² |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 8 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 0.2 mm ² ... 4 mm ² |
| Cross section AWG | 24 ... 12 (converted acc. to IEC) |
| Conductor cross section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Nominal current | 30 A |
| Maximum load current | 32 A (with 4 mm ² conductor cross section) |
| Nominal voltage | 275 V |
| Nominal cross section | 4 mm ² |

Ex data

Rated data (ATEX/IECEx)

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| | |
|-----------------------------|------------------------------------|
| Identification | ⊕ II 2 G Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 1205053 SZS 0,6X3,5 |
| Ex temperature increase | 40 K (30.7 A / 4 mm ²) |
| Rated voltage | 352 V |
| Rated insulation voltage | 320 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|---------|
| Rated current | 30 A |
| Maximum load current | 30 A |
| Contact resistance | 0.25 mΩ |

Ex connection data General

| | |
|---|---|
| Torque range | 0.6 Nm ... 0.8 Nm |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm ² ... 4 mm ² |
| Connection capacity AWG | 24 ... 12 |
| Connection capacity flexible | 0.2 mm ² ... 4 mm ² |
| Connection capacity AWG | 24 ... 24 |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 24 ... 16 |
| 2 conductors with same cross section, stranded | 0.2 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 24 ... 16 |

Dimensions

| | |
|---------------------|--------|
| Dimensional drawing | |
| Width | 92 mm |
| Height | 22 mm |
| Depth | 24 mm |
| Hole diameter | 3.2 mm |

Material specifications

| | |
|---|--------|
| Color | gray |
| 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)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |

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| | |
|---|-------------|
| 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

General

| | |
|-------------------------|--|
| Terminal block mounting | When attaching the product to the mounting surface, please ensure that the housing is not damaged when tightening the center screw |
|-------------------------|--|

Mechanical data

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

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 % |

Standards and regulations

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

Mounting

| | |
|-------------------------|--|
| Mounting type | direct screw connection |
| Terminal block mounting | When attaching the product to the mounting surface, please ensure that the housing is not damaged when tightening the center screw |

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Classifications

ECLASS

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|-------------|----------|
| ECLASS-11.0 | 27141106 |
| ECLASS-12.0 | 27141106 |
| ECLASS-13.0 | 27141106 |

ETIM

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| ETIM 9.0 | EC001284 |
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UNSPSC

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| UNSPSC 21.0 | 39121400 |
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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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