# G 5/ 6-EX - Device terminal block

2703198

https://www.phoenixcontact.com/us/products/2703198

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The figure shows a combination of versions G 5/2, G 5/3 and G 5/4

Device terminal block, nom. voltage: 275 V, nominal current: 30 A, number of connections: 12, number of positions: 6, connection method: Screw connection, Rated cross section: 4 mm$^2$, cross section: 0.2 mm$^2$ - 4 mm$^2$, mounting type: direct screw connection, color: gray

## Commercial data

| | |
|---|---|
| Item number | 2703198 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE12 |
| Product key | BE1265 |
| GTIN | 4017918061098 |
| Weight per piece (including packing) | 42.3 g |
| Weight per piece (excluding packing) | 42.3 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Feed-through terminal block |
| Product family | G |
| Number of positions | 6 |
| Number of connections | 12 |
| Number of rows | 1 |
| Potentials | 6 |

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 | 12 |
| Nominal cross section | 4 mm² |
| Connection method | Screw connection |
| 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 mm² ... 4 mm² |
| Cross section AWG | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 2.5 mm² |
| 2 conductors with same cross section, rigid | 0.2 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible | 0.2 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² ... 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 30 A |
| Maximum load current | 32 A (with 4 mm² conductor cross-section) |
| Nominal voltage | 275 V |

### Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx 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 mm²) |
| Rated insulation voltage | 320 V |
| output | (Permanent) |

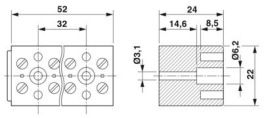
Ex level General

| | |
|---|---|
| Rated voltage | 352 V |
| 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 mm² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm² ... 4 mm² |
| Connection capacity AWG | 24 ... 12 |
| Connection capacity flexible | 0.2 mm² ... 4 mm² |
| Connection capacity AWG | 24 ... 24 |
| 2 conductors with same cross section, solid | 0.2 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid | 24 ... 16 |
| 2 conductors with same cross section, stranded | 0.2 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 24 ... 16 |

## Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 52 mm |
| Height | 22 mm |
| Depth | 24 mm |
| Hole diameter | 3.2 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| 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 | 130 °C |

| | |
|---|---|
| 0304-21)) | |
| 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

### 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, 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 % |

## Standards and regulations

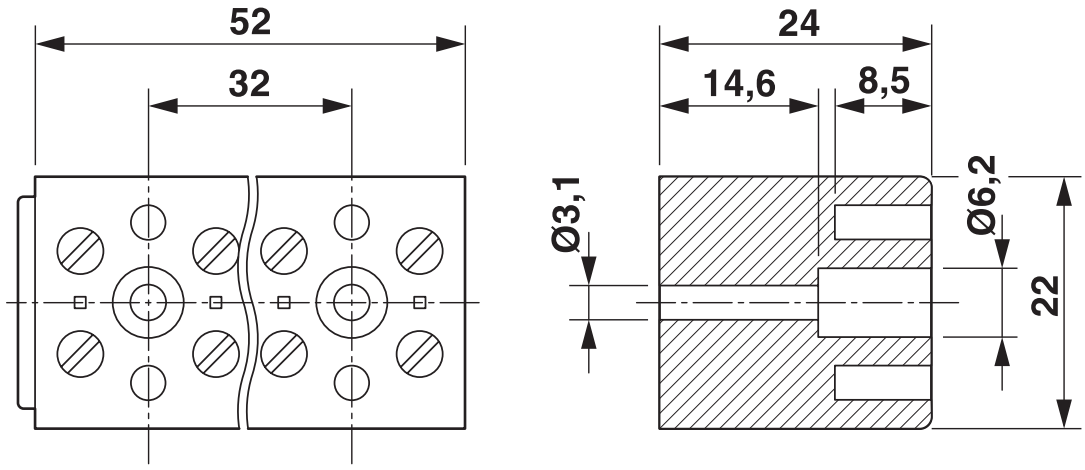
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

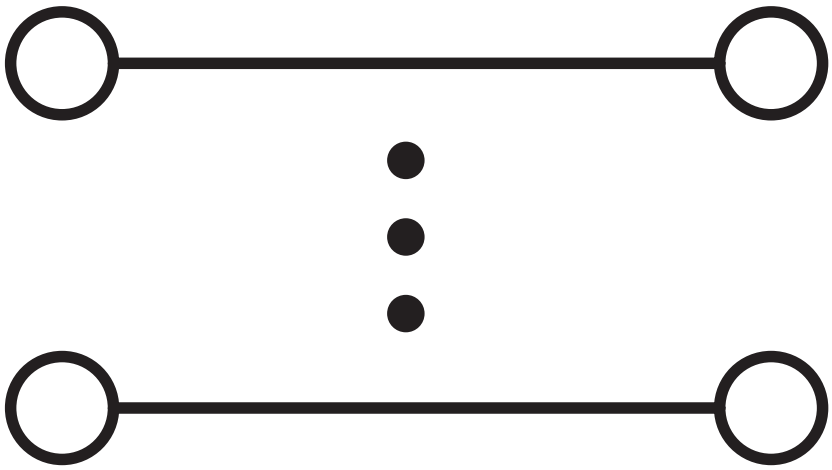
| | |
|---|---|
| Mounting type | direct screw connection |
| Terminal block mounting | When attaching the product to the mounting surface, please ensure that the housing is not damaged when tightening the center screw |

## Drawings

Dimensional drawing




Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2703198

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 300 V | 30 A | 26 - 10 | - |

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 30 A | 26 - 10 | - |

**EAC Ex**
Approval ID: KZ 7500525010101950

**IECEx**
Approval ID: IECExPTB06.0043U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 352 V | 30 A | - | 0.2 - 4 |
| Multi-conductor connection | 352 V | 30 A | - | 0.2 - 1.5 |

**ATEX**
Approval ID: PTB06ATEX1034U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Multi-conductor connection | 352 V | 30 A | - | 0.2 - 1.5 |
| Type examination certificate | 352 V | 30 A | - | 0.2 - 4 |

**CCC**
Approval ID: 2020322313000624

**cUL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 300 V | 30 A | 26 - 10 | 26 - 10 |

**UL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 300 V | 30 A | 26 - 10 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27141106 |
| ECLASS-15.0 | 27141106 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001284 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | eef9f078-fb62-4f3b-8894-f141027b36d0 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.165 kg CO2e |


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