

# G 5/ 4-EX - Device terminal block



2703185

<https://www.phoenixcontact.com/us/products/2703185>

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Device terminal block, nom. voltage: 275 V, nominal current: 30 A, number of connections: 8, number of positions: 4, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: direct screw connection, color: gray

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2703185       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1265        |
| GTIN                                 | 4017918108762 |
| Weight per piece (including packing) | 28.718 g      |
| Weight per piece (excluding packing) | 28 g          |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | G                           |
| Number of positions   | 4                           |
| Number of connections | 8                           |
| Number of rows        | 1                           |
| Potentials            | 4                           |

### 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                                                           | 8                                                     |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |
| 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 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible                                                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Conductor cross-section, flexible [AWG]                                                   | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| 2 conductors with same cross section, solid                                               | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>             |
| Nominal current                                                                           | 30 A                                                  |
| Maximum load current                                                                      | 32 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage                                                                           | 275 V                                                 |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |

### Ex data

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## Rated data (ATEX/IECEX)

|                             |                        |
|-----------------------------|------------------------|
| Identification              | Ex 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)            |

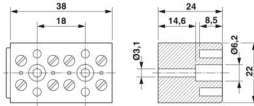
## Ex level General

|                      |         |
|----------------------|---------|
| 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               | 38 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          |

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

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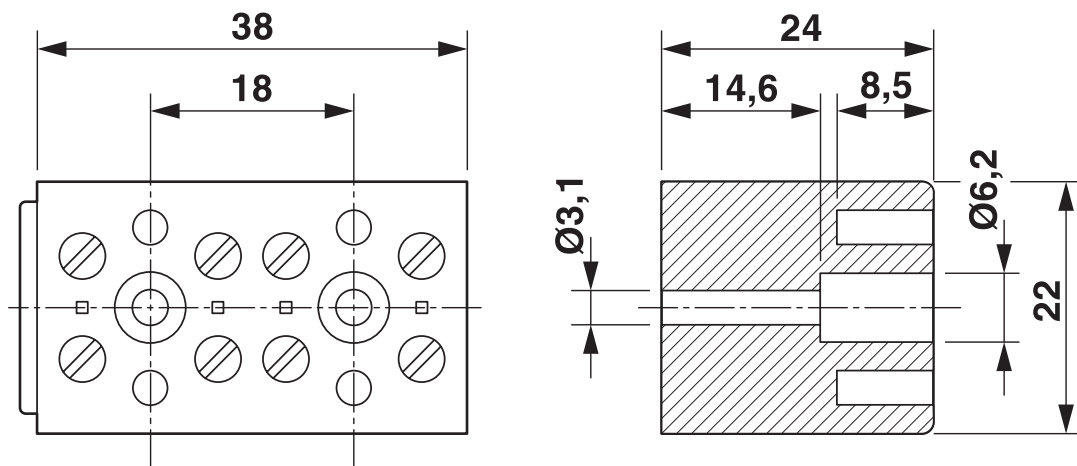
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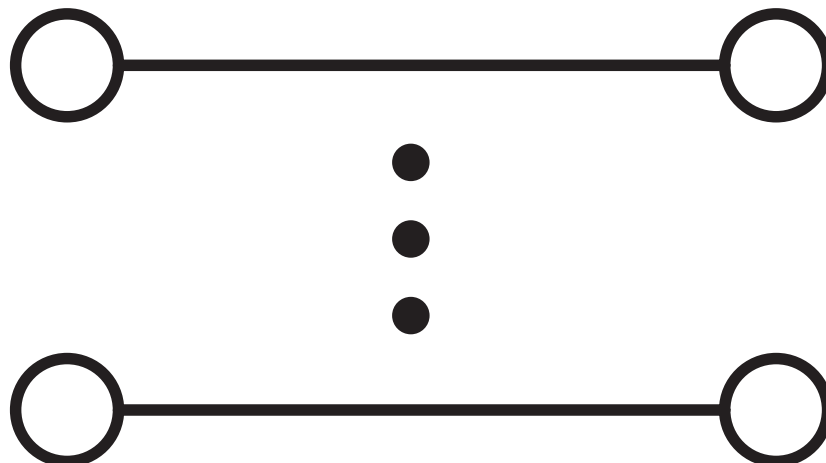


## Drawings

Dimensional drawing



Circuit diagram



# G 5/ 4-EX - Device terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2703185>

|                                                                                                                    |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                              |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 30 A                  | 26 - 10           | -                           |

|                                                                                                                                  |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                |                       |                       |                   |                             |
|                                                                                                                                  | 300 V                 | 30 A                  | 26 - 10           | -                           |

|                                                                                                                                       |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                   |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>IECEx</b><br>Approval ID: IECExPTB06.0043U |                       |                       |                   |                             |
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 352 V                 | 30 A                  | -                 | 0.2 - 4                     |
| Multi-conductor connection                                                                                                        | 352 V                 | 30 A                  | -                 | 0.2 - 1.5                   |

|                                                                                                                                |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>ATEX</b><br>Approval ID: PTB06ATEX1034U |                       |                       |                   |                             |
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                          |                       |                       |                   |                             |
| Multi-conductor connection                                                                                                     | 352 V                 | 30 A                  | -                 | 0.2 - 1.5                   |
| Type examination certificate                                                                                                   | 352 V                 | 30 A                  | -                 | 0.2 - 4                     |

|                                                                                                                                 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>CCC</b><br>Approval ID: 2020322313000624 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                   |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>cUL Recognized</b><br>Approval ID: E192998 |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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

| <div><b>UL Recognized</b><br/>Approval ID: E192998</div> |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 30 A                  | 26 - 10           | -                           |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001284 |
|----------|----------|

### UNSPSC

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

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## 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                                | 8c64c661-d1fb-4d0f-ad40-dc9e3679999a |

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