

# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device terminal block, nom. voltage: 500 V, nominal current: 32 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

## Your advantages

- Touch-proof shock protection

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2716046             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BE12                |
| Product key                          | BE1265              |
| Catalog page                         | Page 577 (C-1-2019) |
| GTIN                                 | 4017918061784       |
| Weight per piece (including packing) | 28.774 g            |
| Weight per piece (excluding packing) | 28.715 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | TR                  |

# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| 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

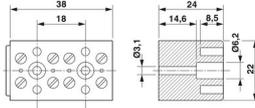
|   |   |
|---|---|
| Number of connections per level   | 8   |
| Nominal cross section   | 4 mm <sup>2</sup>                                     |
| Screw thread  | M3  |
| Tightening torque   | 0.6 ... 0.8 Nm  |
| Stripping length  | 8 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. 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   | 32 A  |
| Maximum load current  | 32 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage   | 500 V   |
| Nominal cross section   | 4 mm <sup>2</sup>                                     |

### Dimensions

# G 5/ 4 - Device terminal block

2716046

<https://www.phoenixcontact.com/us/products/2716046>

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 38 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      |
| 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      |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq 45$ K |
| Result   | Test passed                         |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### General

# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

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

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.2 mm <sup>2</sup> / 0.2 kg |
|                                | 1.5 mm <sup>2</sup> / 0.4 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Ambient conditions

|  |   |
|--|---|
| 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 (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 |

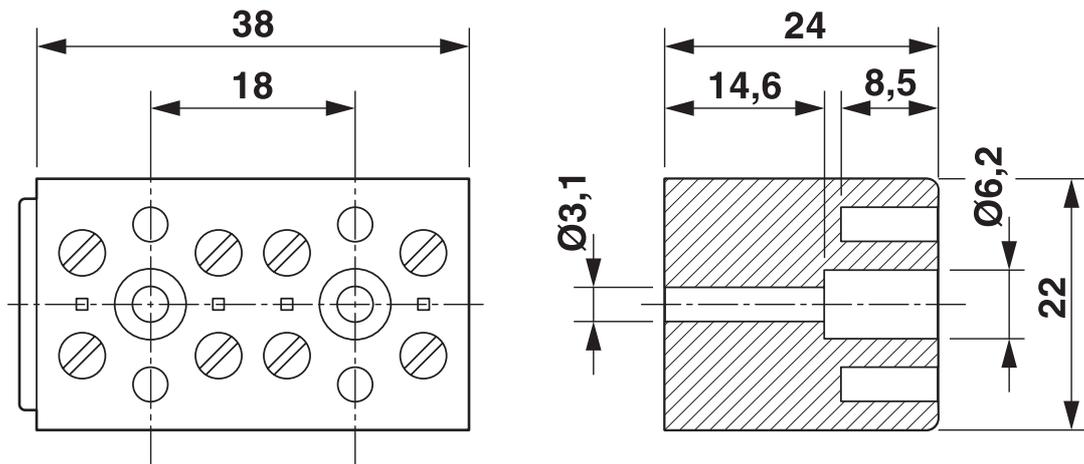
# G 5/ 4 - Device terminal block

2716046

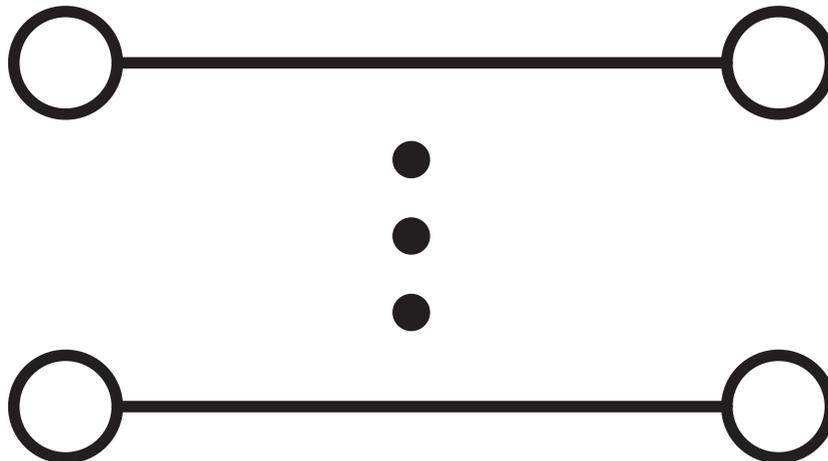
<https://www.phoenixcontact.com/us/products/2716046>

## Drawings

Dimensional drawing



Circuit diagram



# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2716046>

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

|   |
|---|
|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00534 |
|---|

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

|  |
|--|
|  <b>ClassNK</b><br>Approval ID: 09 ME 142 |
|--|

|  |
|--|
|  <b>RS</b><br>Approval ID: 22.44.01.00083.250 |
|--|

# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001284 |
|----------|----------|

### UNSPSC

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

# G 5/ 4 - Device terminal block



2716046

<https://www.phoenixcontact.com/us/products/2716046>

## Environmental product compliance

|            |  |
|------------|--|
| 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" |

## G 5/ 4 - Device terminal block

2716046

<https://www.phoenixcontact.com/us/products/2716046>



### Accessories

#### BN WH - Marker for terminal blocks

1401404

<https://www.phoenixcontact.com/us/products/1401404>



Marker for terminal blocks, Stud, white, unlabeled, can be labeled with: Marker pen, mounting type: plug in, for terminal block width: 4.2 mm, lettering field size: 4 x 4 mm

---

#### SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/us/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

## G 5/ 4 - Device terminal block

2716046

<https://www.phoenixcontact.com/us/products/2716046>



### WS-G5/4 - Warning label

2716499

<https://www.phoenixcontact.com/us/products/2716499>

Warning plate, for the device terminal block G 5, completely covers the surface of the terminal block, 4-pos.



---

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)