

3025042  
<https://www.phoenixcontact.com/us/products/3025042>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 1000 V, nominal current: 10 A, connection method: Push-in connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup>- 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3025042             |
| Packing unit                         | 25 pc               |
| Minimum order quantity               | 25 pc               |
| Sales key                            | BE22                |
| Product key                          | BE2235              |
| Catalog page                         | Page 113 (C-1-2019) |
| GTIN                                 | 4055626379401       |
| Weight per piece (including packing) | 28.45 g             |
| Weight per piece (excluding packing) | 27.452 g            |
| Customs tariff number                | 85369095            |
| Country of origin                    | IN                  |

# PT 6-DREHSI (5X20) - Fuse modular terminal block



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## Technical data

### Notes

#### General

|      |                                                                                                  |
|------|--------------------------------------------------------------------------------------------------|
| Note | The current is determined by the fuse used, the voltage by the fuse or selected light indicator. |
|------|--------------------------------------------------------------------------------------------------|

### Product properties

|                       |                     |
|-----------------------|---------------------|
| Product type          | Fuse terminal block |
| Number of connections | 2                   |
| Number of rows        | 1                   |
| Potentials            | 1                   |

#### Insulation characteristics

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

### Electrical properties

|                                                 |                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Fuse type                                       | Glass / ceramics / ...                                                                                       |
| Rated surge voltage                             | 6 kV                                                                                                         |
| Maximum power dissipation for nominal condition | 1.31 W                                                                                                       |
| Fuse                                            | G / 5 x 20                                                                                                   |
| Maximum power dissipation                       | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)                     |
|                                                 | max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)        |
|                                                 | max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)                |
|                                                 | max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

### Connection data

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Number of connections per level                                   | 2                                          |
| Nominal cross section                                             | 6 mm <sup>2</sup>                          |
| Rated cross section AWG                                           | 10                                         |
| Stripping length                                                  | 10 mm ... 12 mm                            |
| Internal cylindrical gage                                         | A5                                         |
| Connection in acc. with standard                                  | IEC 60947-7-3                              |
| Conductor cross section rigid                                     | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Cross section AWG                                                 | 20 ... 8 (converted acc. to IEC)           |
| Conductor cross section flexible                                  | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Conductor cross section, flexible [AWG]                           | 20 ... 8 (converted acc. to IEC)           |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |

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|                                                                                           |                                                                                               |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 2.5 mm² When using TWIN ferrules, we recommend a minimum ferrule length of 13 mm. |
| Nominal current                                                                           | 10 A                                                                                          |
| Maximum load current                                                                      | 10 A (the current is determined by the fuse used)                                             |
| Nominal voltage                                                                           | 1000 V                                                                                        |
| Nominal cross section                                                                     | 6 mm²                                                                                         |

Connection cross sections directly pluggable

|                                                                   |                  |
|-------------------------------------------------------------------|------------------|
| Conductor cross section rigid                                     | 1 mm² ... 10 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm² ... 6 mm²  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 1 mm² ... 6 mm²  |

## Ex data

Rated data (ATEX/IECEx)

|                          |                                    |
|--------------------------|------------------------------------|
| Ex-certified accessories | 3047028 D-UT 2,5/10                |
|                          | 3047167 ATP-UT                     |
|                          | 1205053 SZS 0,6X3,5                |
|                          | 3022276 CLIPFIX 35-5               |
|                          | 3022218 CLIPFIX 35                 |
| List of bridges          | Plug-in bridge / FBS 2-5 / 3030161 |
|                          | Plug-in bridge / FBS 3-5 / 3030174 |
|                          | Plug-in bridge / FBS 4-5 / 3030187 |
|                          | Plug-in bridge / FBS 5-5 / 3030190 |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 12.3 mm |
| End cover width    | 2.2 mm  |
| Height             | 77.7 mm |
| Depth              | 49.8 mm |
| Depth on NS 35/7,5 | 51.3 mm |
| Depth on NS 35/15  | 58.8 mm |

## Material specifications

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| Color                                                            | black (RAL 9005) |
| Flammability rating according to UL 94                           | V0               |
| Insulating material group                                        | I                |
| Insulating material                                              | PA               |
| Static insulating material application in cold                   | -60 °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      |
| Surface flammability NFPA 130 (ASTM E 162)                       | passed           |

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

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |

### 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 60947-7-3 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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Drawings

Application drawing



Fuse terminal blocks in interconnected arrangement,  
block consisting of 5 fuse terminal blocks

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Application drawing



Fuse terminal block in single arrangement,  
block consisting of one fuse terminal block and 4 feed-through terminal blocks

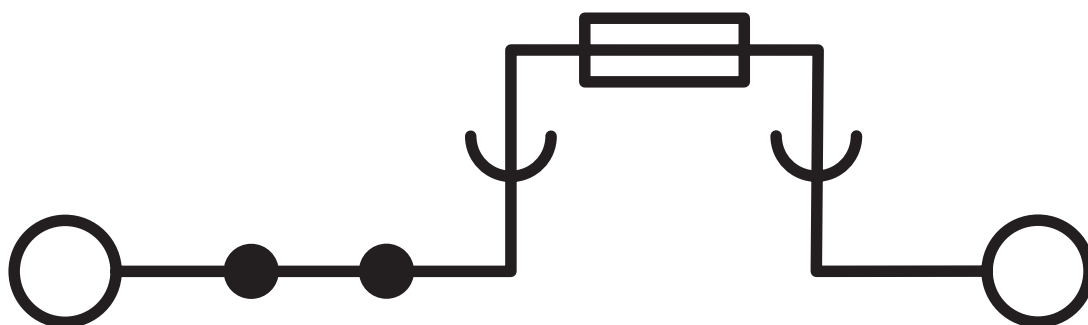
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3025042>

|  |                                                 |                       |                   |                             |
|--|-------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>IECEE CB Scheme</b><br>Approval ID: NL-50196 |                       |                   |                             |
|  | Nominal voltage $U_N$                           | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 1000 V                                          | 10 A                  | -                 | -                           |

|  |                                                 |
|--|-------------------------------------------------|
|  | <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |
|--|-------------------------------------------------|

|  |                                                |
|--|------------------------------------------------|
|  | <b>cULus Recognized</b><br>Approval ID: E60425 |
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|  | <b>cULus Recognized</b><br>Approval ID: E60425 |
|--|------------------------------------------------|

|  |                                    |                       |                   |                             |
|--|------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>CSA</b><br>Approval ID: 2030668 |                       |                   |                             |
|  | Nominal voltage $U_N$              | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | Use group B                        |                       |                   |                             |
|  | 600 V                              | 10 A                  | 20 - 8            | -                           |
|  | Use group C                        |                       |                   |                             |
|  | 600 V                              | 10 A                  | 20 - 8            | -                           |

|  |                                               |
|--|-----------------------------------------------|
|  | <b>EAC</b><br>Approval ID: KZ7500651131219505 |
|--|-----------------------------------------------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000899 |
|----------|----------|

### 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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