

# DT 6/2,5-DREHSILED 24 (5X20) - Fuse modular terminal block



3034251

<https://www.phoenixcontact.com/us/products/3034251>

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Fuse terminal block for cartridge fuse insert, cross section: 0.5-10 mm<sup>2</sup>, AWG: 20-8, width: 12.2 mm, color: Black

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3034251       |
| Packing unit                         | 25 pc         |
| Minimum order quantity               | 25 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2235        |
| GTIN                                 | 4046356052801 |
| Weight per piece (including packing) | 26.311 g      |
| Weight per piece (excluding packing) | 24.733 g      |
| Customs tariff number                | 85369095      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|                    |                                    |
|--------------------|------------------------------------|
| Order information: | Fuse-link not supplied as standard |
|--------------------|------------------------------------|

### 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 | 0.77 W                    |
| Fuse  | G / 5 x 20                |
| LED voltage range                               | 12 V AC/DC ... 30 V AC/DC |
| LED current range                               | 1 mA ... 2.5 mA           |

### Input data

|                   |                           |
|-------------------|---------------------------|
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
|-------------------|---------------------------|

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

### Level 1 above 1

|   |   |
|---|---|
| Connection method   | Leg spring connection                       |
| Stripping length  | 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> ... 6 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG]   | 20 ... 10 (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>   |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

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|                       |   |
|-----------------------|---|
| Nominal cross section | 1.5 mm <sup>2</sup>                                   |
| Nominal current       | 10 A  |
| Maximum load current  | 10 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage       | 500 V   |

## Level 1 below 1

|   |  |
|---|--|
| Connection method   | Leg spring connection                        |
| Stripping length  | 10 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> ... 2.5 mm <sup>2</sup>  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 2.5 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 the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                          |
| Nominal cross section   | 1.5 mm <sup>2</sup>                          |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 12.2 mm |
| Height             | 71.5 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           |
| 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           |

## Mechanical properties

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## 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 60947-7-3 |
|                                  | IEC 60947-7-1 |

## Mounting

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

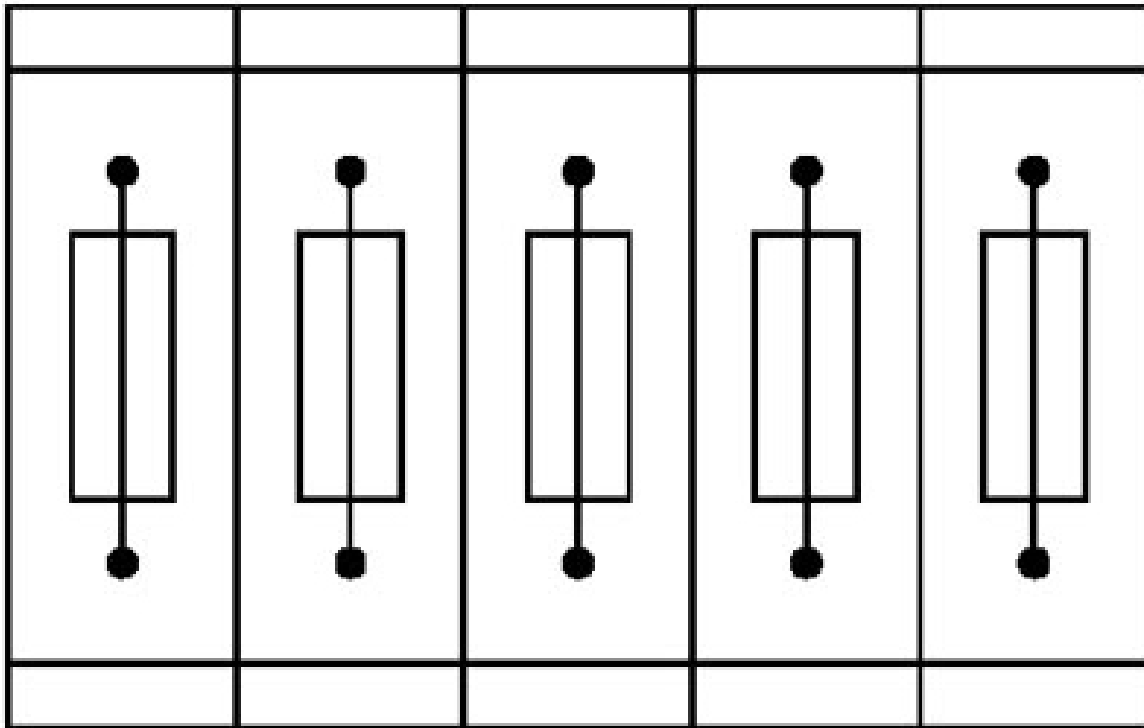
# DT 6/2,5-DREHSILED 24 (5X20) - Fuse modular terminal block

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## Drawings

### Application drawing



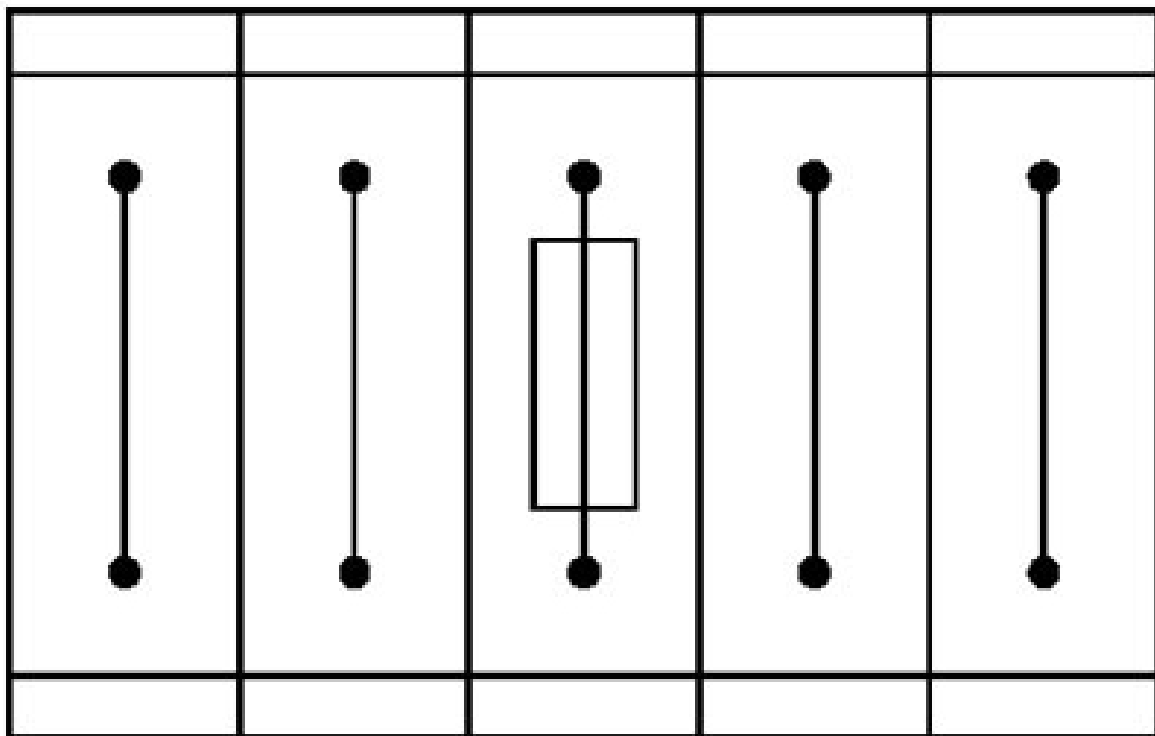
Fuse terminal blocks in interconnected arrangement,  
block consisting of 5 fuse terminal blocks

# DT 6/2,5-DREHSEILED 24 (5X20) - Fuse modular terminal block

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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

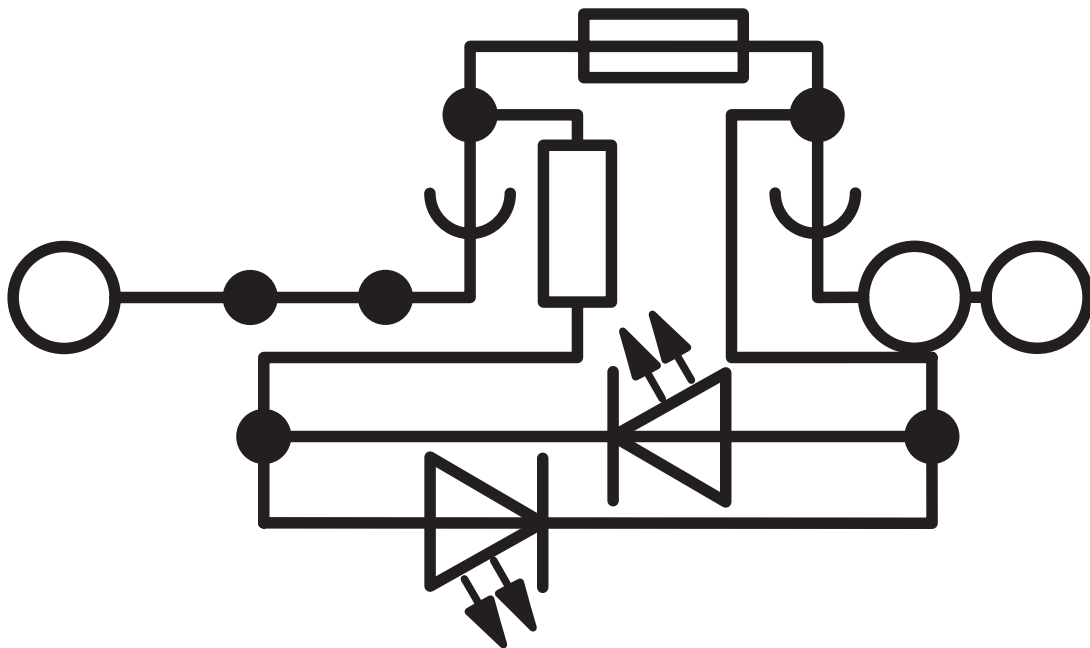
# DT 6/2,5-DREHSILED 24 (5X20) - Fuse modular terminal block



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Circuit diagram



# DT 6/2,5-DREHSILED 24 (5X20) - Fuse modular terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3034251>



**IECEE CB Scheme**  
Approval ID: NL-23160



**EAC**  
Approval ID: RU C-DE.BL08.B.00644



**KEMA-KEUR**  
Approval ID: 71-104946



**cULus Recognized**  
Approval ID: E60425

|          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|----------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>B</b> |                       |                       |                   |                             |
| Output   | 600 V                 | 10 A                  | 24 - 12           | -                           |
| Input    | 600 V                 | 10 A                  | 20 - 8            | -                           |
| <b>C</b> |                       |                       |                   |                             |
| Output   | 600 V                 | 10 A                  | 24 - 12           | -                           |
| Input    | 600 V                 | 10 A                  | 20 - 8            | -                           |



**EAC**  
Approval ID: KZ7500651131219505

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.33 kg CO2e |
|---------|--------------|

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