

# UK 5-HESILED 60 N - Fuse modular terminal block



3000541

<https://www.phoenixcontact.com/us/products/3000541>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 60 V, nominal current: 6.3 A, number of positions: 1, connection method: Screw connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: black

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3000541       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1234        |
| GTIN                                 | 4046356676021 |
| Weight per piece (including packing) | 14.367 g      |
| Weight per piece (excluding packing) | 13.44 g       |
| Customs tariff number                | 85369095      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|                        |  |
|------------------------|--|
| Order information:     | Fuse-link not supplied as standard                                   |
| Note regarding marking | For terminal marking, please use marking material with 8.2 mm pitch. |
| Note regarding marking | For lever marking, please use marking material with 6.2 mm pitch.    |

### Product properties

|                       |                     |
|-----------------------|---------------------|
| Product type          | Fuse terminal block |
| Number of positions   | 1                   |
| 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 | 1.02 W   |
| Fuse  | G / 5 x 20   |
| LED voltage range                               | 30 V AC/DC ... 60 V AC/DC  |
| LED current range                               | 0.9 mA ... 1.8 mA  |
| 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) |

### Input data

|                   |                           |
|-------------------|---------------------------|
| LED voltage range | 30 V AC/DC ... 60 V AC/DC |
|-------------------|---------------------------|

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Screw thread      | M3               |

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|   |  |
|---|--|
| Tightening torque   | 0.6 ... 0.8 Nm                                     |
| Stripping length  | 8 mm   |
| Internal cylindrical gage   | A4   |
| Connection in acc. with standard  | IEC 60947-7-3                                      |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>          |
| Cross section AWG   | 24 ... 10 (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>       |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>        |
| Cross-section with insertion bridge, rigid  | 4 mm <sup>2</sup>                                  |
| Cross-section with insertion bridge, flexible   | 4 mm <sup>2</sup>                                  |
| 2 conductors with same cross section, rigid   | 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> ... 2.5 mm <sup>2</sup>        |
| Nominal cross section   | 1.5 mm <sup>2</sup>                                |
| Nominal current   | 6.3 A  |
| Maximum load current  | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage   | 60 V   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 8.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 58 mm   |
| Depth on NS 32     | 55 mm   |
| Depth on NS 35/7,5 | 50 mm   |
| Depth on NS 35/15  | 57.6 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      |

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

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## 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 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |
|               | NS 32     |

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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

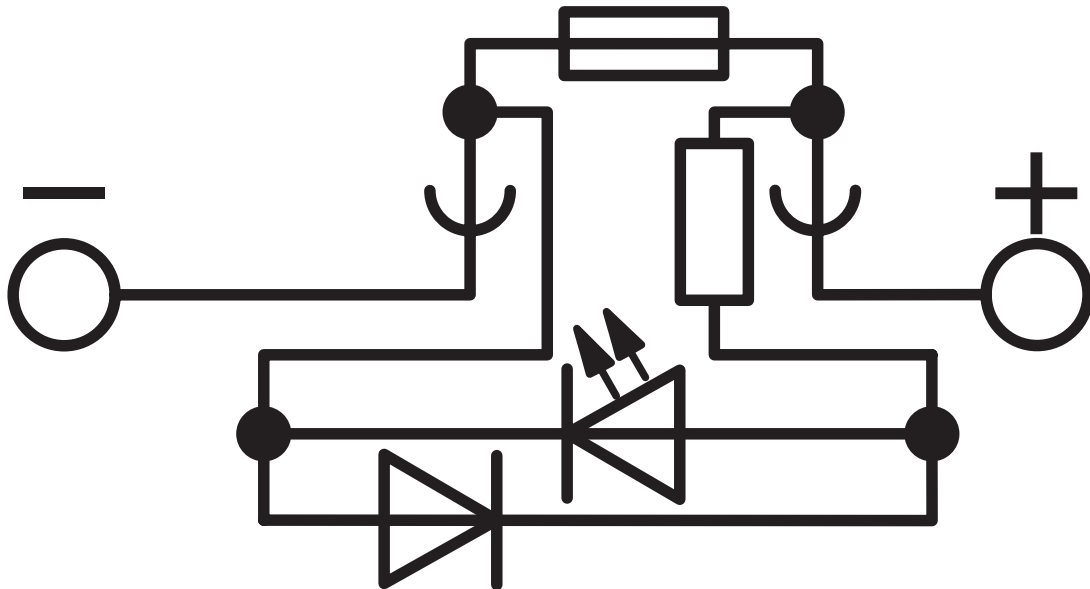
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3000541>

|  <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  | 600 V                 | 16 A                  | 26 - 10           | -                           |
| C  | 600 V                 | 16 A                  | 26 - 10           | -                           |
| F  | 800 V                 | 16 A                  | 26 - 10           | -                           |

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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% |
|-------------------------------------|----------------------------|

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