

# UK 5-HESI N - Fuse modular terminal block



3000539

<https://www.phoenixcontact.com/us/products/3000539>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 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                          | 3000539             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE12                |
| Product key                          | BE1234              |
| Catalog page                         | Page 490 (C-1-2019) |
| GTIN                                 | 4046356676045       |
| Weight per piece (including packing) | 13.873 g            |
| Weight per piece (excluding packing) | 12.6 g              |
| Customs tariff number                | 85369095            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

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

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### 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                                                                                                   |
| 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           | 4 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Screw thread                     | M3                                        |
| 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> |

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|                                                                                                                   |                                                    |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 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, 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> ... 2.5 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                                                                                                   | 500 V (As a fuse terminal block)                   |
| Nominal cross section                                                                                             | 1.5 mm <sup>2</sup>                                |

## 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           |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Oscillation/broadband noise

|               |                                     |
|---------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
|---------------|-------------------------------------|

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|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Spectrum               | Service life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$      |
| ASD level              | $1.857 \text{ (m/s}^2\text{)}^2\text{/Hz}$          |
| Acceleration           | 0.8g                                                |
| Test duration per axis | 5 h                                                 |
| Test directions        | X-, Y- and Z-axis                                   |
| Result                 | Test passed                                         |

## Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 5g                                  |
| Shock duration                 | 30 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  |
|               | NS 32     |

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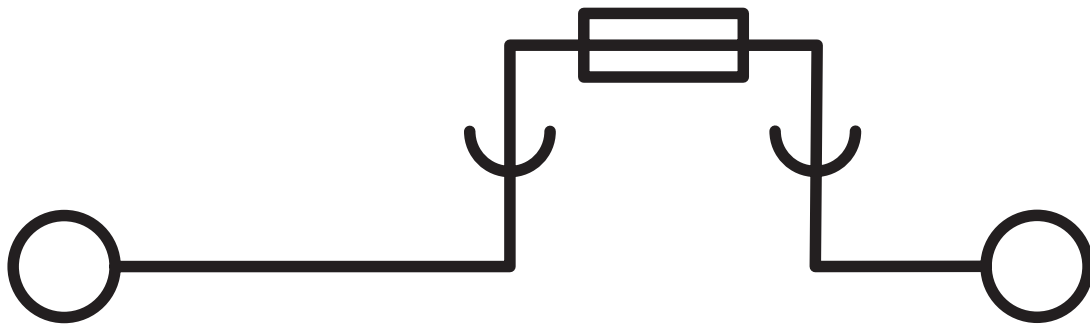


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## Drawings

Circuit diagram



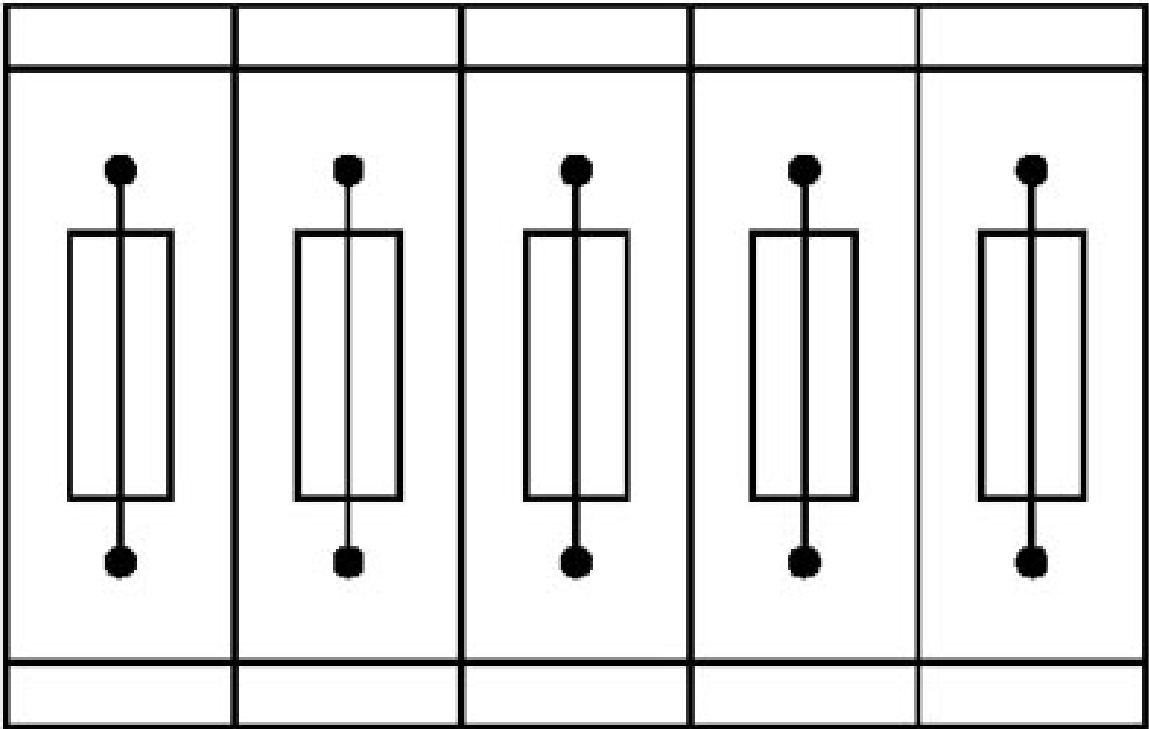
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Application drawing



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

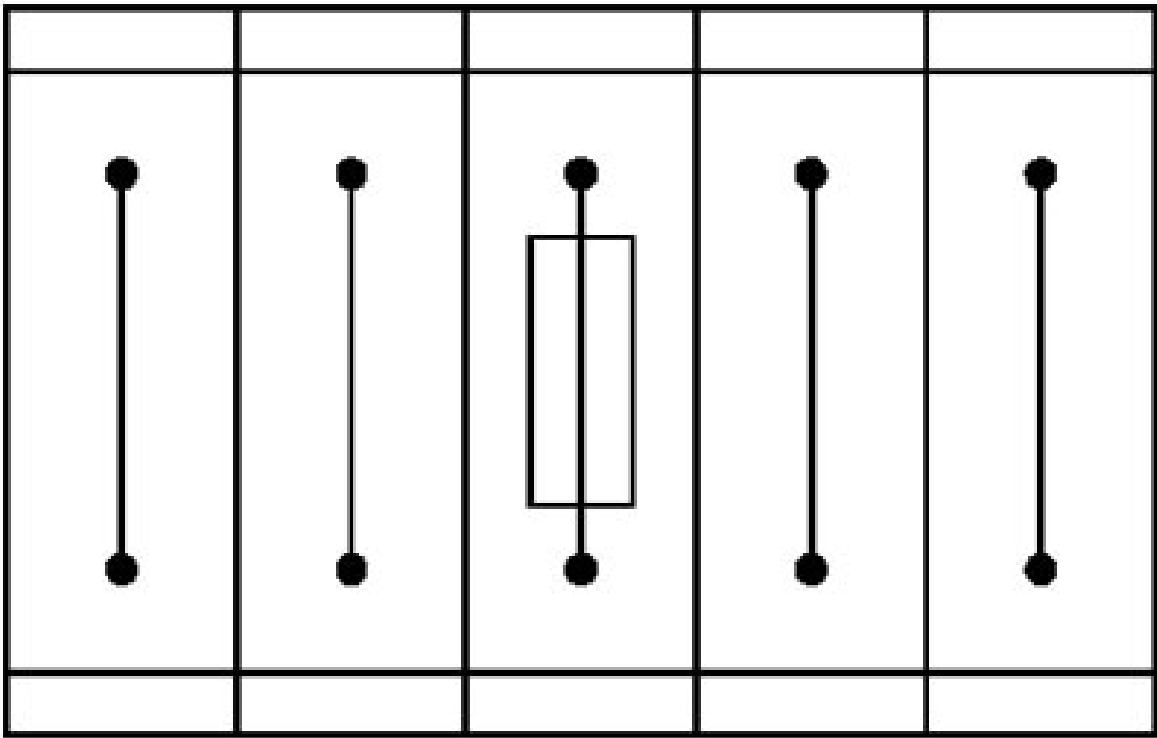
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Application drawing



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3000539>

**EAC**  
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                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 600 V                 | 16 A                  | 26 - 10           | -                           |
| Use group C                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 600 V                 | 16 A                  | 26 - 10           | -                           |
| Use group F                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 800 V                 | 16 A                  | 26 - 10           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141116 |
| ECLASS-12.0 | 27141116 |
| 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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