

# UK 10-DREHSILED 12 (5X20) - Fuse modular terminal block



3005112

<https://www.phoenixcontact.com/us/products/3005112>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 12 V, nominal current: 10 A, number of positions: 1, connection method: Screw connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup>- 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: black

## Your advantages

- Can be bridged with FBI ... fixed bridge

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3005112       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BE12          |
| Product key                          | BE1235        |
| GTIN                                 | 4017918091057 |
| Weight per piece (including packing) | 33.77 g       |
| Weight per piece (excluding packing) | 33.77 g       |
| Customs tariff number                | 85369095      |
| Country of origin                    | PL            |

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## Technical data

### Notes

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

### 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 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                             | 4 kV                     |
| Maximum power dissipation for nominal condition | 2.43 W                   |
| Fuse                                            | G / 5 x 20               |
| LED voltage range                               | 5 V AC/DC ... 15 V AC/DC |
| LED current range                               | 0.5 mA ... 2.5 mA        |

### Input data

|                   |                          |
|-------------------|--------------------------|
| LED voltage range | 5 V AC/DC ... 15 V AC/DC |
|-------------------|--------------------------|

### Connection data

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Number of connections per level                                   | 2                                          |
| Nominal cross section                                             | 16 mm <sup>2</sup>                         |
| Connection method                                                 | Screw connection                           |
| Screw thread                                                      | M4                                         |
| Tightening torque                                                 | 1.5 ... 1.8 Nm                             |
| Stripping length                                                  | 11 mm                                      |
| Internal cylindrical gage                                         | B6                                         |
| Connection in acc. with standard                                  | IEC 60947-7-3                              |
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Cross section AWG                                                 | 20 ... 6 (converted acc. to IEC)           |
| Conductor cross-section flexible                                  | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG]                           | 20 ... 6 (converted acc. to IEC)           |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |

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|                                                                                           |                                                                                 |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                      |
| 2 conductors with same cross section, rigid                                               | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                       |
| 2 conductors with same cross section, flexible                                            | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                       |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                       |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                      |
| Nominal cross section                                                                     | 1.5 mm <sup>2</sup>                                                             |
| Nominal current                                                                           | 10 A                                                                            |
| Maximum load current                                                                      | 10 A                                                                            |
| Nominal voltage                                                                           | 12 V (As a fuse terminal block)<br>800 V (As a disconnect terminal block)       |
| Note                                                                                      | The current is determined by the fuse used, the voltage by the light indicator. |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 12 mm   |
| Height             | 62 mm   |
| Depth on NS 32     | 62.2 mm |
| Depth on NS 35/7,5 | 57.2 mm |
| Depth on NS 35/15  | 64.7 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           |
| 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):2008-03 |
|---------------|-------------------------------------|

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|                        |                                                  |
|------------------------|--------------------------------------------------|
| Spectrum               | Long life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | 1.857 (m/s <sup>2</sup> )/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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3005112>

|  <b>IECEE CB Scheme</b><br>Approval ID: NL-56826/A1 |                       |                       |                   |                      |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                                |                       |                       |                   |                      |
|                                                                                                                                      | 800 V                 | -                     | -                 | 0.5 - 16             |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B                                                                                                                                |                       |                       |                   |                      |
|                                                                                                                                  | 300 V                 | 20 A                  | 24 - 6            | -                    |
| C                                                                                                                                |                       |                       |                   |                      |
|                                                                                                                                  | 300 V                 | 20 A                  | 24 - 6            | -                    |
| F                                                                                                                                |                       |                       |                   |                      |
|                                                                                                                                  | 500 V                 | 20 A                  | 24 - 6            | -                    |

|  <b>KEMA-KEUR</b><br>Approval ID: 71-119846 |                       |                       |                   |                      |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                          |                       |                       |                   |                      |
|                                                                                                                                | -                     | 10 A                  | -                 | 0.5 - 16             |

|  <b>EAC</b><br>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 | 0.403 kg CO2e |
|---------|---------------|

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