

# UK 10-DREHSI-EX (5X20) - Fuse modular terminal block



3073953

<https://www.phoenixcontact.com/us/products/3073953>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 V, nominal current: 10 A, 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

- Fuse terminal block for explosion protection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3073953       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1235        |
| GTIN                                 | 4046356343121 |
| Weight per piece (including packing) | 33.8 g        |
| Weight per piece (excluding packing) | 33.8 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                             | 4 kV                   |
| Maximum power dissipation for nominal condition | 2.43 W                 |
| Fuse  | G / 5 x 20             |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 16 mm <sup>2</sup> |

### Level 1 above 1 below 1

|   |  |
|---|--|
| 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> |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Cross-section with insertion bridge, rigid  | 10 mm <sup>2</sup>                         |
| Cross-section with insertion bridge, flexible                                       | 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                       | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |

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|                             |  |
|-----------------------------|--|
| ferrule with plastic sleeve |  |
| Nominal cross section       | 1.5 mm <sup>2</sup>  |
| Nominal current             | 10 A   |
| Maximum load current        | 10 A   |
| Nominal voltage             | 500 V (As a fuse terminal block)<br>800 V (As a disconnect terminal block) |

## Ex data

### Rated data (ATEX/IECEx)

|                             |   |
|-----------------------------|---|
| Identification              | ⊕ II 3 GD Ex ec IIC Gc                  |
| Operating temperature range | -50 °C ... 125 °C                       |
| Ex-certified accessories    | 1205066 SZS 1,0X4,0 VDE<br>1201442 E/UK |
| Rated insulation voltage    | 250 V                                   |
| output                      | (Permanent)                             |

### Ex level General

|                      |       |
|----------------------|-------|
| Rated voltage        | 275 V |
| Rated current        | 6.3 A |
| Maximum load current | 6.3 A |

### Ex connection data General

|   |  |
|---|--|
| Torque range  | 1.5 Nm ... 1.8 Nm                          |
| Nominal cross section                                 | 16 mm <sup>2</sup>                         |
| Rated cross section AWG                               | 6  |
| Connection capacity rigid                             | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Connection capacity AWG                               | 20 ... 6                                   |
| Connection capacity flexible                          | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Connection capacity AWG                               | 20 ... 6                                   |
| 2 conductors with same cross section, solid           | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross-section AWG rigid    | 20 ... 10                                  |
| 2 conductors with same cross section, stranded        | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross-section AWG flexible | 20 ... 10                                  |

## 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 | V2               |
| Insulating material group              | I                |

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|                     |    |
|---------------------|----|
| Insulating material | PA |
|---------------------|----|

## Mechanical properties

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

## Mounting

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

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## Drawings

Circuit diagram



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## Approvals


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|  <b>ATEX</b><br>Approval ID: KEMA10ATEX0096U |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 250 V                 | 6.3 A                 | -                 | 0.5 - 16                    |

|  <b>IECEX</b><br>Approval ID: IECEx KEM10.0054U |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 250 V                 | 6.3 A                 | -                 | 0.5 - 16                    |

|  <b>CCC</b><br>Approval ID: 2020322313000632 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UKCA-EX</b><br>Approval ID: DEKRA 22UKEX6025U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

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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 | 0.385 kg CO2e |
|---------|---------------|

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