

# UK 10 N RD - Feed-through terminal block



3022315

<https://www.phoenixcontact.com/au/products/3022315>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 57 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 10 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, color: red

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3022315       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE1211        |
| Product key                          | BE1211        |
| GTIN                                 | 4017918433390 |
| Weight per piece (including packing) | 17.22 g       |
| Weight per piece (excluding packing) | 16.312 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | UK                          |
| Number of positions   | 1                           |
| Number of connections | 2                           |
| Number of rows        | 1                           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.82 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 10 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                                           |                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Screw thread                                                                              | M4                                                     |
| Tightening torque                                                                         | 1.5 ... 1.8 Nm                                         |
| Stripping length                                                                          | 10 mm                                                  |
| Internal cylindrical gage                                                                 | B6                                                     |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                          |
| 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> ... 10 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]                                                   | 20 ... 8 (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> ... 6 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, solid                                               | 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> ... 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> ... 6 mm <sup>2</sup>              |
| Nominal current                                                                           | 57 A                                                   |
| Maximum load current                                                                      | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 800 V                                                  |
| Nominal cross section                                                                     | 10 mm <sup>2</sup>                                     |

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## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 10.2 mm |
| End cover width    | 1.8 mm  |
| Height             | 42.5 mm |
| Depth on NS 32     | 52.3 mm |
| Depth on NS 35/7,5 | 47.3 mm |
| Depth on NS 35/15  | 54.8 mm |

## Material specifications

|                                                                         |                |
|-------------------------------------------------------------------------|----------------|
| Color                                                                   | red (RAL 3001) |
| 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         |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq 45$ K |
| Result                                          | Test passed                         |
| Short-time withstand current 10 mm <sup>2</sup> | 1.2 kA                              |
| Short-time withstand current 16 mm <sup>2</sup> | 1.92 kA                             |
| Result                                          | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 5 N         |
| Result                  | Test passed |

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 10 mm <sup>2</sup> / 2 kg    |
|                                | 16 mm <sup>2</sup> / 2.9 kg  |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| 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 60947-7-1 |
|----------------------------------|---------------|

## Mounting

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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/3022315>

| CSA<br>Approval ID: 13631 |                       |                       |                   |                             |
|---------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B               | 600 V                 | 65 A                  | 24 - 6            | -                           |
| Use group C               | 600 V                 | 65 A                  | 24 - 6            | -                           |

| CB<br>IECEE CB Scheme<br>Approval ID: NL-39959 |                       |                       |                   |                             |
|------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                | 800 V                 | 57 A                  | -                 | - 10                        |

| cULus<br>cULus Recognized<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                 | 65 A                  | 24 - 6            | -                           |
| Use group C                                      | 600 V                 | 65 A                  | 24 - 6            | -                           |
| Use group F                                      | 800 V                 | 65 A                  | 24 - 6            | -                           |

| KEMA-KEUR<br>Approval ID: 71-119849 |                       |                       |                   |                             |
|-------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                     | 800 V                 | 57 A                  | -                 | - 10                        |

| GL<br>Approval ID: 98876-96 HH |                       |                       |                   |                             |
|--------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| EEx e II part certificate      | 690 V                 | 57 A                  | -                 | - 10                        |

| cUL Recognized<br>Approval ID: E192998 |                       |                       |                   |                             |
|----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                        | 600 V                 | 65 A                  | 24 - 6            | -                           |

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**EAC Ex**  
Approval ID: KZ 7500525010101950

|  | <div><div><b>UL Recognized</b><br/>Approval ID: E192998</div></div> |                       |                   |                             |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$                                                                                                                                | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 600 V                                                                                                                                                | 65 A                  | 24 - 6            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### 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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