

# UKKB 10 - Double-level terminal block



2772077

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Double-level terminal block, nom. voltage: 500 V, nominal current: 57 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, 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, NS 32, color: gray

## Your advantages

- Design width of just 10.2 mm

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2772077       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1214        |
| GTIN                                 | 4017918068240 |
| Weight per piece (including packing) | 43.86 g       |
| Weight per piece (excluding packing) | 44.254 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | TR            |

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## Technical data

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Multi-level terminal block |
| Product family        | UK                         |
| Number of connections | 4                          |
| Number of rows        | 2                          |
| Potentials            | 2                          |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 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> |

### 1st and 2nd level

|                                                                                           |                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 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 60947-7-1                                          |
| 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>              |
| 2 conductors with same cross section, solid                                               | 0.5 mm <sup>2</sup> ... 6 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> ... 6 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                                                                           | 500 V                                                  |
| Nominal cross section                                                                     | 10 mm <sup>2</sup>                                     |
| Screw thread                                                                              | M4                                                     |

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|                                                                                           |                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Tightening torque                                                                         | 1.5 ... 1.8 Nm                                         |
| Stripping length                                                                          | 11 mm                                                  |
| 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 (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>              |
| 2 conductors with same cross section, solid                                               | 0.5 mm <sup>2</sup> ... 6 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> ... 6 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 cross section                                                                     | 10 mm <sup>2</sup>                                     |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 10.2 mm |
| End cover width    | 1.5 mm  |
| Height             | 77.5 mm |
| Depth on NS 32     | 78 mm   |
| Depth on NS 35/7,5 | 73 mm   |
| Depth on NS 35/15  | 80.5 mm |

## Material specifications

|                                                                         |                 |
|-------------------------------------------------------------------------|-----------------|
| Color                                                                   | gray (RAL 7042) |
| 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

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## Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 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 | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| 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.) |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|

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|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| 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 |
|                                  | IEC 60947-7-1 |

## Mounting

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

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2772077>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                              |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 65 A                  | 24 - 6            | -                           |

|  <b>IECEE CB Scheme</b><br>Approval ID: NL-39732 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 500 V                 | -                     | -                 | - 10                        |

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>KEMA-KEUR</b><br>Approval ID: 71-126336 REV.1 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                |                       |                       |                   |                             |
|                                                                                                                                      | 500 V                 | -                     | -                 | 0.5 - 10                    |

|  <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                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 300 V                 | 65 A                  | 24 - 6            | -                           |
| C                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 300 V                 | 65 A                  | 24 - 6            | -                           |
| F                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 500 V                 | 65 A                  | 24 - 6            | -                           |
| D                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 600 V                 | 5 A                   | 24 - 6            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250102 |
| ECLASS-15.0 | 27250102 |

### 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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