

# UK 3-TWIN - Feed-through terminal block



3002225

<https://www.phoenixcontact.com/us/products/3002225>

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Feed-through terminal block, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- These twin modular terminal blocks are designed for the basic task of potential branching
- Universal foot for mounting on NS 35.. or NS 32... DIN rails
- Two independent conductor connections can be used on the control cabinet side
- Easy connection of different types of conductors with different cross sections
- Can be bridged in the terminal center, even with neighboring feed-through terminal blocks aligned

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3002225       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1212        |
| GTIN                                 | 4017918090203 |
| Weight per piece (including packing) | 10.1 g        |
| Weight per piece (excluding packing) | 10 g          |
| Customs tariff number                | 85369010      |
| Country of origin                    | TR            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Product family        | UK                             |
| Number of connections | 3                              |
| Number of rows        | 2                              |
| Potentials            | 1                              |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 3                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

#### 1 level

|                                                                                           |                                                                            |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Connection method                                                                         | Screw connection                                                           |
| Screw thread                                                                              | M3                                                                         |
| Tightening torque                                                                         | 0.5 ... 0.6 Nm                                                             |
| Stripping length                                                                          | 8 mm                                                                       |
| Internal cylindrical gage                                                                 | A3                                                                         |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                                              |
| Conductor cross-section rigid                                                             | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                |
| Cross section AWG                                                                         | 24 ... 14 (converted acc. to IEC)                                          |
| Conductor cross-section flexible                                                          | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                |
| Conductor cross-section, flexible [AWG]                                                   | 24 ... 14 (converted acc. to IEC)                                          |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup>                                 |
| Cross-section with insertion bridge, rigid                                                | 2.5 mm <sup>2</sup>                                                        |
| Cross-section with insertion bridge, flexible                                             | 2.5 mm <sup>2</sup>                                                        |
| 2 conductors with same cross section, rigid                                               | 0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>                                |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>                                |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>                               |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                               |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                                        |
| Nominal current                                                                           | 24 A (with a 2.5 mm <sup>2</sup> conductor cross-section)                  |
| Maximum load current                                                                      | 24 A (at a conductor cross-section of 2.5 mm <sup>2</sup> ; it must not be |

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|                 |                                 |
|-----------------|---------------------------------|
|                 | exceeded by the total current.) |
| Nominal voltage | 400 V                           |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| End cover width    | 2 mm    |
| Height             | 50.5 mm |
| Depth on NS 32     | 52 mm   |
| Depth on NS 35/7,5 | 47 mm   |
| Depth on NS 35/15  | 54.5 mm |

## Material specifications

|                                                                         |                 |
|-------------------------------------------------------------------------|-----------------|
| Color                                                                   | gray (RAL 7042) |
| Flammability rating according to UL 94                                  | V2              |
| Insulating material group                                               | I               |
| Insulating material                                                     | PA              |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C          |
| Relative insulation material temperature index (Elec., UL 746 B)        | 125 °C          |

## Electrical tests

### 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 2.5 mm <sup>2</sup> | 0.3 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 |
|-------------------------|-------------|

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|                     |             |
|---------------------|-------------|
| Test force setpoint | 1 N         |
| Result              | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.2 mm <sup>2</sup> / 0.2 kg |
|                                | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 2.5 mm <sup>2</sup> / 0.7 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  |
|               | 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/3002225>

|  <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                 | 20 A                  | 28 - 12           | -                           |

|  <b>IECEE CB Scheme</b><br>Approval ID: NL-65621 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 24 V                  | 400 A                 | -                 | - 2.5                       |

|  <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                 | 20 A                  | 30 - 12           | -                           |
| C                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 150 V                 | 20 A                  | 30 - 12           | -                           |
| F                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 400 V                 | 20 A                  | 30 - 12           | -                           |
| D                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                    | 300 V                 | 10 A                  | 30 - 12           | -                           |

|  <b>KEMA-KEUR</b><br>Approval ID: 71-119849 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                          |                       |                       |                   |                             |
|                                                                                                                                | 400 V                 | 24 A                  | -                 | - 2.5                       |

| <b>DNV</b><br>Approval ID: TAE00001CT |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | b920f6b1-16a7-4f6b-9134-2a86c15aa778 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.038 kg CO2e |
|---------|---------------|

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