

# UK 5 N - Feed-through terminal block



3004362

<https://www.phoenixcontact.com/au/products/3004362>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- Universal foot which can be used on NS 35... and NS 32... DIN rails
- The UK universal screw terminal block series has the typical features which are decisive for practical applications
- Potential distribution via fixed bridges in the terminal center or insertion bridges in the clamping space

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3004362             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE1211              |
| Product key                          | BE1211              |
| Catalog page                         | Page 459 (C-1-2019) |
| GTIN                                 | 4017918090760       |
| Weight per piece (including packing) | 8.6 g               |
| Weight per piece (excluding packing) | 7.948 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 connections | 2                           |
| Number of rows        | 1                           |
| Potentials            | 1                           |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Number of connections per level                                                           | 2                                                     |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |
| Screw thread                                                                              | M3                                                    |
| Tightening torque                                                                         | 0.6 ... 0.8 Nm                                        |
| Stripping length                                                                          | 8 mm                                                  |
| Internal cylindrical gage                                                                 | A4                                                    |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                         |
| Conductor cross section rigid                                                             | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 10 (converted acc. to IEC)                     |
| Conductor cross section flexible                                                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Cross-section with insertion bridge, rigid                                                | 4 mm <sup>2</sup>                                     |
| Cross-section with insertion bridge, flexible                                             | 4 mm <sup>2</sup>                                     |
| 2 conductors with same cross section, solid                                               | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>           |
| Nominal current                                                                           | 32 A                                                  |
| Maximum load current                                                                      | 41 A (with 6 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 800 V                                                 |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |

### Dimensions

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|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 1.8 mm  |
| Height             | 42.5 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                           | 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          |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 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 4 mm <sup>2</sup> | 0.48 kA                             |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
| Result                                         | Test passed                         |

### Power-frequency withstand voltage

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| 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 |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |
|                                | 6 mm <sup>2</sup> / 1.4 kg   |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05              |
| Spectrum               | Long life test category 1, class B, body mounted |
| 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):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 5g (10-150-10 Hz)                   |
| 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 %                                                                                                                |

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|                                          |               |
|------------------------------------------|---------------|
| 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/au/products/3004362>

|                                  |                       |                       |                   |                             |
|----------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                  | 600 V                 | 30 A                  | 28 - 10           | -                           |

|                                                       |                       |                       |                   |                             |
|-------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>CB</b><br>IECEE CB Scheme<br>Approval ID: NL-83812 |                       |                       |                   |                             |
|                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                       | 800 V                 | 32 A                  | -                 | 0.2 - 4                     |

|                                                         |                       |                       |                   |                             |
|---------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>cULus</b><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 F                                             | 800 V                 | 30 A                  | 30 - 10           | -                           |

|                                                    |                       |                       |                   |                             |
|----------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>KEMA</b><br>KEMA-KEUR<br>Approval ID: 71-125614 |                       |                       |                   |                             |
|                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                    | 800 V                 | 32 A                  | -                 | 0.2 - 4                     |

|                                                |  |  |  |  |
|------------------------------------------------|--|--|--|--|
| <b>ClassNK</b><br>NK<br>Approval ID: 09 ME 141 |  |  |  |  |
|------------------------------------------------|--|--|--|--|

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

|                                                      |                       |                       |                   |                             |
|------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>cUL</b><br>cUL Recognized<br>Approval ID: E192998 |                       |                       |                   |                             |
|                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                      | 600 V                 | 30 A                  | 30 - 10           | -                           |

|                                       |                       |                       |                   |                             |
|---------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <b>GL</b><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                 | 32.5 A                | -                 | - 4                         |

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|                                                                                   |                      |                       |                       |                               |
|-----------------------------------------------------------------------------------|----------------------|-----------------------|-----------------------|-------------------------------|
|  | <b>UL Recognized</b> |                       |                       |                               |
|                                                                                   | Approval ID: E192998 |                       |                       |                               |
|                                                                                   |                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG             |
|                                                                                   |                      | 600 V                 | 30 A                  | 30 - 10                       |
|                                                                                   |                      |                       |                       | Cross section mm <sup>2</sup> |
|                                                                                   |                      |                       |                       | -                             |

|                                                                                   |                                |  |  |  |
|-----------------------------------------------------------------------------------|--------------------------------|--|--|--|
|  | <b>UKCA-EX</b>                 |  |  |  |
|                                                                                   | Approval ID: DEKRA 21UKEX0306U |  |  |  |

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

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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  |
| 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                                | a89eec77-ff9c-4681-9765-49b14e995a72 |

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