

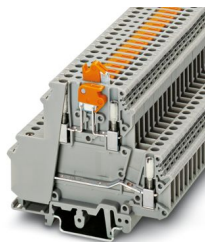
# UKK 5-MTK-P/P - Knife-disconnect terminal block



2800004

<https://www.phoenixcontact.com/us/products/2800004>

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Knife-disconnect terminal block, With test socket screws for insertion of test plugs, nom. voltage: 400 V, nominal current: 26 A, 1st and 2nd level, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, 2nd level, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- Closed housing of double-level terminal blocks
- Space-saving design just 6.2 mm wide
- User-friendly disconnect knife operation

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2800004       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1231        |
| GTIN                                 | 4017918074173 |
| Weight per piece (including packing) | 24.6 g        |
| Weight per piece (excluding packing) | 23.14 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | TR            |

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## Technical data

### Product properties

|                       |                           |
|-----------------------|---------------------------|
| Product type          | Disconnect terminal block |
| 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 | 1.02 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### 1st and 2nd level

|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Connection method                                                                         | Screw connection                                      |
| Screw thread                                                                              | M3                                                    |
| Tightening torque                                                                         | 0.6 ... 0.8 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> ... 4 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 12 (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>          |
| 2 conductors with same cross section, rigid                                               | 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> ... 1.5 mm <sup>2</sup>           |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |
| Nominal current                                                                           | 26 A                                                  |
| Maximum load current                                                                      | 26 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage                                                                           | 400 V                                                 |

#### 2nd level

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|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Connection method                                                                         | Screw connection                                      |
| Screw thread                                                                              | M3                                                    |
| Internal cylindrical gage                                                                 | A4                                                    |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                         |
| Conductor cross-section rigid                                                             | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible                                                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| 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>          |
| 2 conductors with same cross section, rigid                                               | 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> ... 1.5 mm <sup>2</sup>           |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |
| Nominal current                                                                           | 12 A                                                  |
| Maximum load current                                                                      | 12 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage                                                                           | 400 V                                                 |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.1 mm  |
| Height             | 80 mm   |
| Depth on NS 32     | 73 mm   |
| Depth on NS 35/7,5 | 68 mm   |
| Depth on NS 35/15  | 75.5 mm |

## Material specifications

|                                                                         |                 |
|-------------------------------------------------------------------------|-----------------|
| Color                                                                   | gray (RAL 7042) |
| Flammability rating according to UL 94                                  | V2              |
| Insulating material group                                               | I               |
| Insulating material                                                     | PA              |
| Static insulating material application in cold                          | -40 °C          |
| 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          |

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

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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 %                                                             |

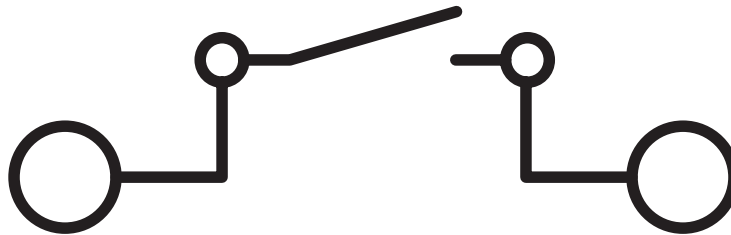
## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| 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     |

Circuit diagram



# UKK 5-MTK-P/P - Knife-disconnect terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800004>

|  <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                                                                                                                                |                       |                       |                   |                             |
| upper level                                                                                                                      | 300 V                 | 15 A                  | 26 - 12           | -                           |
| lower level                                                                                                                      | 300 V                 | 25 A                  | 26 - 12           | -                           |
| C                                                                                                                                |                       |                       |                   |                             |
| upper level                                                                                                                      | 300 V                 | 15 A                  | 26 - 12           | -                           |
| lower level                                                                                                                      | 300 V                 | 25 A                  | 26 - 12           | -                           |
| F                                                                                                                                |                       |                       |                   |                             |
| upper level                                                                                                                      | 400 V                 | 15 A                  | 26 - 12           | -                           |
| lower level                                                                                                                      | 400 V                 | 25 A                  | 26 - 12           | -                           |

|  <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                 | 15 A                  | 22 - 12           | -                           |

|  <b>cUL Recognized</b><br>Approval ID: FILE E 60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                        | 250 V                 | -                     | 26 - 12           | -                           |
| C                                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                        | 300 V                 | -                     | 26 - 12           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250108 |
| ECLASS-15.0 | 27250108 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000902 |
|-----------|----------|

### UNSPSC

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

## 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                                | edfc9729-4695-4f9e-bbfe-0b39317af5ed |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.124 kg CO2e |
|---------|---------------|