

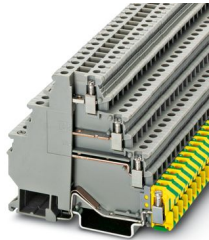
# DLK 2,5-PE - Motor connection terminal block



3011041

<https://www.phoenixcontact.com/us/products/3011041>

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Motor connection terminal block, nom. voltage: 400 V, nominal current: 19 A, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- In order to reduce wiring effort, the DLKB 2,5-PE can also be bridged in the middle and lower levels using EB...-DIK insertion bridges with up to 80 positions
- The DLK 2,5-PE and DLKB 2,5-PE three-conductor terminal blocks are particularly suitable for wiring three-phase loads due to their design featuring three feed-through levels plus PE connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3011041       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE12          |
| Product key                          | BE1225        |
| GTIN                                 | 4017918091903 |
| Weight per piece (including packing) | 27.52 g       |
| Weight per piece (excluding packing) | 27.627 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                      |
|-----------------------|----------------------|
| Product type          | Motor terminal block |
| Number of connections | 7                    |
| Number of rows        | 4                    |
| Potentials            | 4                    |

### 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

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

### Level 1+2+3

|   |  |
|---|--|
| Connection method   | Screw connection   |
| Screw thread  | M3   |
| Note  | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque   | 0.5 ... 0.6 Nm   |
| Stripping length  | 8 mm   |
| Internal cylindrical gage   | A3   |
| Connection in acc. with standard                                  | IEC 60947-7-1/IEC 60947-7-2                                    |
| 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> ... 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> ... 2.5 mm <sup>2</sup>                   |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                   |
| Nominal cross section   | 2.5 mm <sup>2</sup>  |
| Nominal current   | 19 A   |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross-section)          |
| Nominal voltage   | 400 V  |

### Dimensions

|                    |        |
|--------------------|--------|
| Width              | 6.2 mm |
| Height             | 83 mm  |
| Depth on NS 35/7,5 | 70 mm  |

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|                   |         |
|-------------------|---------|
| Depth on NS 35/15 | 77.5 mm |
|-------------------|---------|

## Material specifications

|   |                 |
|---|-----------------|
| Color   | gray (RAL 7042) |
| Flammability rating according to UL 94                                  | V0              |
| 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          |
| 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          |

## 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.) |
| 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 60947-7-2 |
|----------------------------------|-----------------------------|

## Mounting

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

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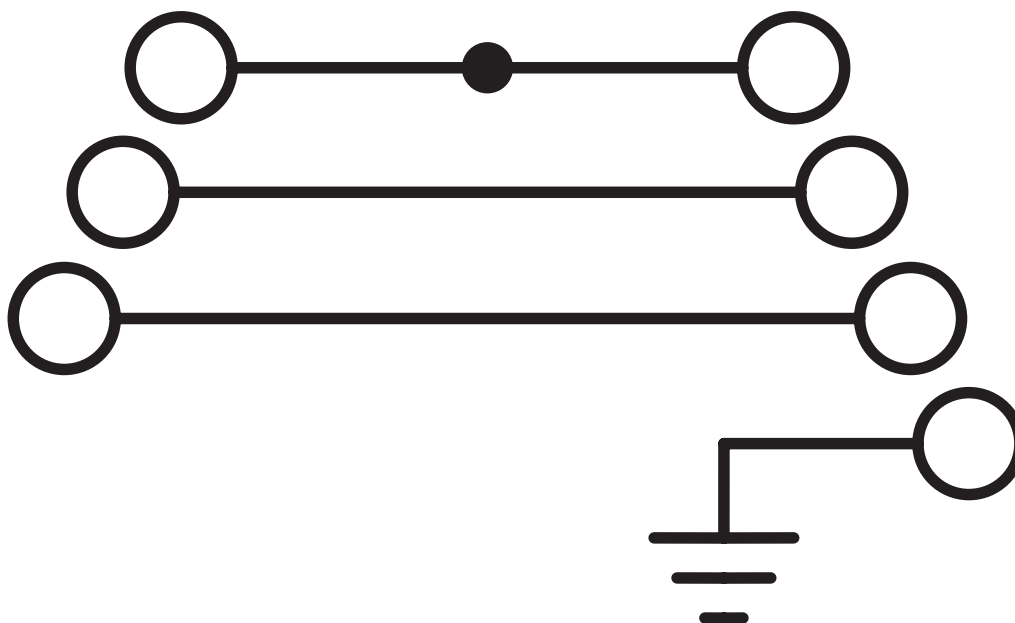


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## Drawings

Circuit diagram



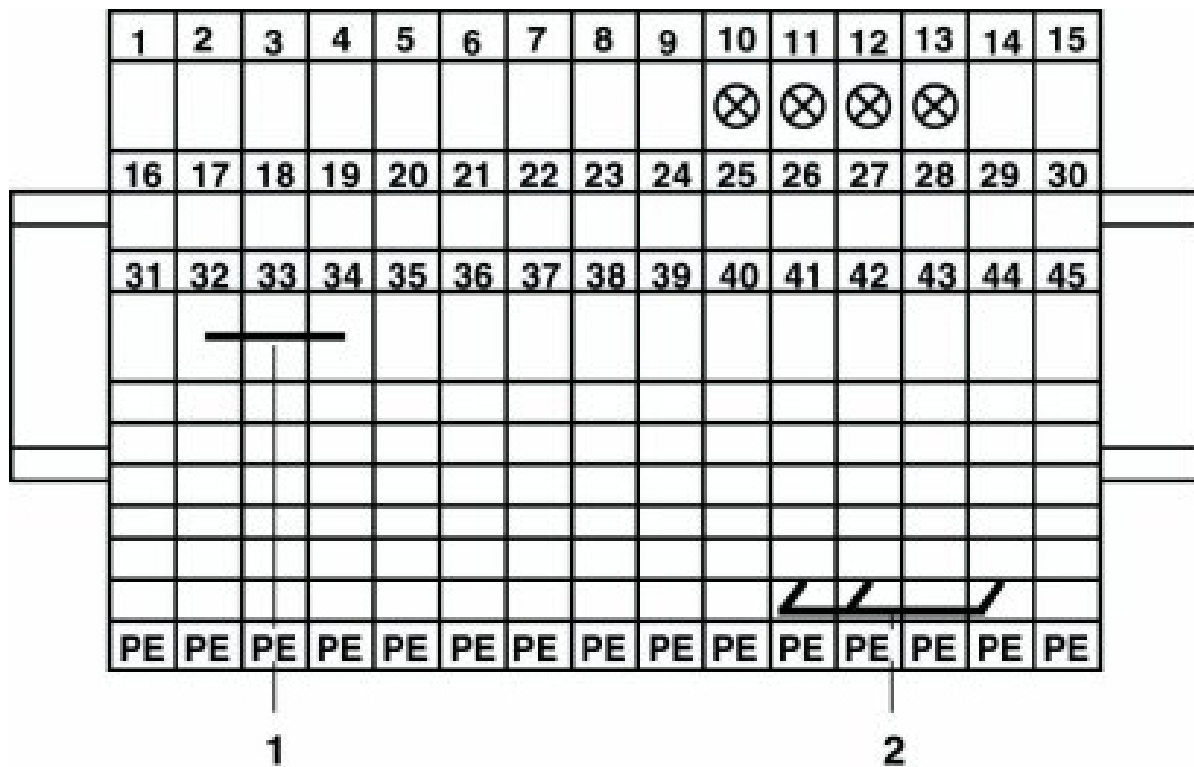
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Circuit diagram



1 = insertion bridge  
2 = fixed bridge

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3011041>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 300 V                 | 15 A                  | 28 - 12           | -                    |

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

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  |                       |                       |                   |                      |
|  | 300 V                 | 15 A                  | 30 - 14           | -                    |
| PE connection  | -                     | -                     | 30 - 14           | -                    |
| C  |                       |                       |                   |                      |
|  | 150 V                 | 15 A                  | 30 - 14           | -                    |
| PE connection  | -                     | -                     | 30 - 14           | -                    |
| D  |                       |                       |                   |                      |
|  | 150 V                 | 15 A                  | 30 - 14           | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250104 |
| ECLASS-15.0 | 27250104 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.143 kg CO2e |
|---------|---------------|

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