

# UDB 2X35/25 GY - Trunk line branch terminal



3071350

<https://www.phoenixcontact.com/us/products/3071350>

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Trunk line branch terminal, nom. voltage: 400 V, nominal current: 125 A, number of connections: 4, number of positions: 1, connection method: Screw connection, 1 level, Rated cross section: 35 mm<sup>2</sup>, cross section: 10 mm<sup>2</sup> - 35 mm<sup>2</sup>, Screw connection, 2nd level, cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- The branch terminal is suitable for the simple voltage pick-off of main supply cables
- Conformance with DIN VDE 0603-2/EN 60998-1

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3071350             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | BE12                |
| Product key                          | BE1213              |
| Catalog page                         | Page 581 (C-1-2019) |
| GTIN                                 | 4046356735858       |
| Weight per piece (including packing) | 81.29 g             |
| Weight per piece (excluding packing) | 80.16 g             |
| Customs tariff number                | 85369010            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|         |                                   |
|---------|-----------------------------------|
| General | Up to 3 terminal blocks alignable |
|---------|-----------------------------------|

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | UDB                         |
| Number of positions   | 1                           |
| Number of connections | 4                           |
| 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 | 4.06 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 4                  |
| Nominal cross section           | 35 mm <sup>2</sup> |

#### 1 level

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Screw thread                                                      | M6/M8                                     |
| Tightening torque                                                 | ... 4 Nm                                  |
| Stripping length                                                  | 25 mm                                     |
| Connection in acc. with standard                                  | IEC 60998-1                               |
| Conductor cross section rigid                                     | 10 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Cross section AWG                                                 | 6 ... 2 (converted acc. to IEC)           |
| Conductor cross section flexible                                  | 10 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Conductor cross section, flexible [AWG]                           | 6 ... 4 (converted acc. to IEC)           |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 10 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 10 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Nominal current                                                   | 125 A                                     |
| Maximum load current                                              | 125 A                                     |
| Nominal voltage                                                   | 400 V (max. 1000 V)                       |
| Note                                                              | Use ferrules for stranded conductors      |
| Nominal cross section                                             | 35 mm <sup>2</sup>                        |

#### 2nd level

|                                  |             |
|----------------------------------|-------------|
| Stripping length                 | 25 mm       |
| Connection in acc. with standard | IEC 60998-1 |

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|                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| Conductor cross section rigid                                     | 1.5 mm² ... 25 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm² ... 16 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 1.5 mm² ... 10 mm² |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 27 mm   |
| Height             | 55 mm   |
| Depth on NS 35/7,5 | 46 mm   |
| Depth on NS 35/15  | 53.5 mm |

## Material specifications

|                                        |                 |
|----------------------------------------|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0              |
| Insulating material group              | I               |
| Insulating material                    | PA              |

## 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 60998-1 |
|                                  | IEC 60998-1 |

## Mounting

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

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## Drawings

Circuit diagram



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## Approvals

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**EAC**

Approval ID: RU C-DE.A\*30.B.01742



**VDE Zeichengenehmigung**

Approval ID: 40055082



**EAC**

Approval ID: EACKZ 08593

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250119 |

### 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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