

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Trunk line branch terminal, nom. voltage: 400 V, nominal current: 101 A, number of connections: 4, number of positions: 1, connection method: Screw connection, Rated cross section: 25 mm², 1 level, cross section: 1.5 mm² - 25 mm², Screw connection, 2nd level, cross section: 1.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, color: green

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 | 3071359 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Sales key | BE12 |
| Product key | BE1213 |
| GTIN | 4046356736046 |
| Weight per piece (including packing) | 50.43 g |
| Weight per piece (excluding packing) | 50.43 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

Technical data

Notes

General

| | |
|------|--|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |
|------|--|

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 | 3.26 W |

Connection data

| | |
|---------------------------------|--------------------|
| Number of connections per level | 4 |
| Nominal cross section | 25 mm ² |

1 level

| | |
|---|--|
| Connection method | Screw connection |
| Screw thread | M5/M6 |
| Tightening torque | 2.2 ... 2.5 Nm |
| Stripping length | 16 mm |
| Connection in acc. with standard | IEC 60998-1 |
| Conductor cross-section rigid | 1.5 mm ² ... 25 mm ² |
| Cross section AWG | 14 ... 4 (converted acc. to IEC) |
| Conductor cross-section flexible | 10 mm ² ... 16 mm ² |
| Conductor cross-section, flexible [AWG] | 6 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm ² ... 16 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1.5 mm ² ... 10 mm ² |
| Nominal cross section | 25 mm ² |
| Nominal current | 101 A |
| Maximum load current | 101 A |
| Nominal voltage | 400 V (max. 1000 V) |
| Note | Use ferrules for stranded conductors |

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

2nd level

| | |
|---|--|
| Connection method | Screw connection |
| Tightening torque | 1.7 ... 2 Nm |
| Stripping length | 16 mm |
| Connection in acc. with standard | IEC 60998-1 |
| Conductor cross-section rigid | 1.5 mm ² ... 16 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1.5 mm ² ... 6 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 23 mm |
| Height | 46 mm |
| Depth on NS 35/7,5 | 42 mm |
| Depth on NS 35/15 | 49.5 mm |

Material specifications

| | |
|--|------------------|
| Color | green (RAL 6021) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |

Electrical tests

Surge voltage test

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

Temperature-rise test

| | |
|---|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature \leq 45 K |
| Result | Test passed |
| Short-time withstand current 25 mm ² | 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 | No |
|-----------------|----|

Mechanical tests

Mechanical strength

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

Attachment on the carrier

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 1.5 mm ² / 0.4 kg |
| | 16 mm ² / 2.9 kg |
| | 25 mm ² / 4.5 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 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²)/Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-----------------------------------|
| Pulse shape | Half-sine |
| Acceleration | 5g |
| 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 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

| | |
|----------------------------------|-------------|
| Connection in acc. with standard | IEC 60998-1 |
|----------------------------------|-------------|

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

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

Mounting

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

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

Drawings

Circuit diagram



UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3071359>



EAC

Approval ID: KZ7500651131219505



VDE Zeichengenehmigung

Approval ID: 40055083

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250119 |
| ECLASS-15.0 | 27250119 |

ETIM

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

UNSPSC

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

UDB 2X25/16 GN - Trunk line branch terminal



3071359

<https://www.phoenixcontact.com/us/products/3071359>

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 | 0.24 kg CO2e |
|---------|--------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com