

# UDB 2X25/16 GN - Trunk line branch terminal



3071359

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

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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 mm<sup>2</sup>, 1 level, cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, Screw connection, 2nd level, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, 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

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## Technical data

### Notes

#### General

Note	The max. load current must not be exceeded by the total current of all connected conductors.
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### 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 <sup>2</sup>

#### 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 <sup>2</sup> ... 25 mm <sup>2</sup>
Cross section AWG	14 ... 4 (converted acc. to IEC)
Conductor cross-section flexible	10 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	6 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Nominal cross section	25 mm <sup>2</sup>
Nominal current	101 A
Maximum load current	101 A
Nominal voltage	400 V (max. 1000 V)
Note	Use ferrules for stranded conductors

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## 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 <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>

## 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
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### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 25 mm <sup>2</sup>	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
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

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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 <sup>2</sup> / 0.4 kg
	16 mm <sup>2</sup> / 2.9 kg
	25 mm <sup>2</sup> / 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 <sup>2</sup> )/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
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	IEC 60998-1
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## 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: KZ7500651131219505



**VDE Zeichengenehmigung**

Approval ID: 40055083

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## Classifications

### ECLASS

ECLASS-13.0	27250119
ECLASS-15.0	27250119

### ETIM

ETIM 10.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	0.24 kg CO2e
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