

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

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, 1 level, Rated cross section: 25 mm², 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: brown

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	3071357
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BE12
Product key	BE1213
Catalog page	Page 580 (C-1-2019)
GTIN	4046356736022
Weight per piece (including packing)	50.6 g
Weight per piece (excluding packing)	50.6 g
Customs tariff number	85369010
Country of origin	DE

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

Technical data

Notes

General	Up to 3 terminal blocks alignable
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
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

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 current	101 A
Maximum load current	101 A
Nominal voltage	400 V (max. 1000 V)
Note	Use ferrules for stranded conductors
Nominal cross section	25 mm ²

2nd level

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

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	brown
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 ≤ 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

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

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

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	Service 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) 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, no longer than 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

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

Mounting

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

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250119

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

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

UDB 2X25/16 BN - Trunk line branch terminal



3071357

<https://www.phoenixcontact.com/us/products/3071357>

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 © - 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