UDB 2X25/16 BK - Trunk line branch terminal

3071356

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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^2, 1 level, cross section: 1.5 mm^2 - 25 mm^2, Screw connection, 2nd level, cross section: 1.5 mm^2 - 16 mm^2, mounting type: NS 35/7,5, NS 35/15, color: black

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	3071356
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BE12
Product key	BE1213
GTIN	4046356736015
Weight per piece (including packing)	50.47 g
Weight per piece (excluding packing)	50.47 g
Customs tariff number	85369010
Country of origin	DE

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
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 mm²

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 mm² ... 25 mm²
Cross section AWG	14 ... 4 (converted acc. to IEC)
Conductor cross-section flexible	10 mm² ... 16 mm²
Conductor cross-section, flexible [AWG]	6 ... 6 (converted acc. to IEC)
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
Nominal cross section	25 mm²
Nominal current	101 A
Maximum load current	101 A
Nominal voltage	400 V (max. 1000 V)

Note	Use ferrules for stranded conductors

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 mm² ... 16 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² ... 10 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm² ... 6 mm²

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	black (RAL 9005)
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 mm²	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

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	1.5 mm² / 0.4 kg
	16 mm² / 2.9 kg
	25 mm² / 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 Hz to f_2 = 250 Hz
ASD level	6.12 (m/s²)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
	IEC 60998-1

Mounting

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

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3071356

EAC
Approval ID: KZ7500651131219505

VDE Zeichengenehmigung
Approval ID: 40055083

Classifications

ECLASS

ECLASS-13.0	27250119
ECLASS-15.0	27250119

ETIM

ETIM 10.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

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

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