

# UTN 35 - N disconnect terminal block



3245066

<https://www.phoenixcontact.com/sg/products/3245066>

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## N disconnect terminal block, Assembly instructions:

For secure fastening of the neutral busbar, supports must be set at the beginning and end of each terminal strip as well as every 20 cm on longer terminal strips., for neutral conductor disconnection, nom. voltage: 400 V, nominal current: 110 A, Special and hybrid connection, 1st level connection right, Rated cross section: 35 mm<sup>2</sup>, cross section: 0.75 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- Same shape as UT standard terminal blocks

## Commercial data

Item number	3245066
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	BE1152
Catalog page	Page 187 (C-1-2019)
GTIN	4046356299039
Weight per piece (including packing)	48.376 g
Weight per piece (excluding packing)	46.93 g
Customs tariff number	85369010
Country of origin	TR

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## Technical data

### Notes

General	<b>Assembly instructions:</b> For secure fastening of the neutral busbar, supports must be set at the beginning and end of each terminal strip as well as every 20 cm on longer terminal strips.
General	
Note	The max. load current must not be exceeded by the total current of all connected conductors.

### Product properties

Product type	Installation terminal block
Number of connections	2
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	4.06 W
Current carrying capacity of the neutral busbar	140 A

### Connection data

Number of connections per level	2
Nominal cross section	35 mm <sup>2</sup>
Tightening torque disconnect slide	M5 2.5 ... 3 Nm

### 1st level connection right

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	18 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Nominal current	110 A
Maximum load current	110 A (with 35 mm <sup>2</sup> conductor cross section)
Nominal voltage	400 V
Nominal cross section	35 mm <sup>2</sup>

## Dimensions

Width	15 mm
Height	55 mm
Depth	49.8 mm
Depth on NS 32	56 mm
Depth on NS 35/7,5	51 mm

## Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

## Electrical tests

### Surge voltage test

Result	Test passed
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### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 35 mm <sup>2</sup>	4.2 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

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Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.75 mm <sup>2</sup> / 0.4 kg
	10 mm <sup>2</sup> / 2 kg
	35 mm <sup>2</sup> / 6.8 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> ) <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	Semi-sinusoidal
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
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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## Mounting

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Mounting type	NS 35/7,5
	NS 35/15
Screw thread	M5

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## Drawings

### Circuit diagram



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## Approvals

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**EAC**

Approval ID: EACKZ 08593

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## Classifications

### ECLASS

ECLASS-11.0	27141138
ECLASS-12.0	27141138
ECLASS-13.0	27250111

### ETIM

ETIM 9.0	EC001257
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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
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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