

# TB-EE-DB 250/1+11 - Distribution block



1725169

<https://www.phoenixcontact.com/us/products/1725169>

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Distribution block, nom. voltage: 1000 V, nominal current: 232 A, Thermal continuous current  $I_{th}$ : 250 A, number of connections: 12, number of positions: 1, connection method: Screw connection, Rated cross section: 95 mm<sup>2</sup>, Line contact, cross section: 35 mm<sup>2</sup> - 120 mm<sup>2</sup>, Screw connection, Load contact, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, Direct mounting, color: dark gray

## Your advantages

- Fast installation via ready-to-connect distributor and collection block
- Blocks can be snapped to each other to form function groups
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Flexible use, thanks to DIN rail and direct mounting
- Reversible cover for optimum readability of the technical data

## Commercial data

Item number	1725169
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE05
Product key	BEK825
GTIN	4067923280717
Weight per piece (including packing)	443.3 g
Weight per piece (excluding packing)	443.3 g
Customs tariff number	85369010
Country of origin	IN

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## Technical data

### Notes

#### General

Note	The maximum load current of a single clamping unit must not be exceeded.
	For power distribution applications, IEC 60364-4-43:2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!

### Product properties

Product type	Distributor terminal block
Product family	TB
Area of application	Machine building
Number of positions	1
Number of connections	12
Number of rows	1

#### Insulation characteristics

Degree of pollution	3
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### Electrical properties

Rated surge voltage	8 kV
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### Connection data

Number of connections per level	12
Nominal cross section	95 mm <sup>2</sup>
Rated cross section AWG	000

#### Line contact

Connection method	Screw connection
Screw thread	M14
Number of connections	1
Note	Ferrules are mandatory when using flexible conductors
Tightening torque	19 ... 21 Nm
Stripping length	28 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	35 mm <sup>2</sup> ... 120 mm <sup>2</sup>
Cross section AWG	0 ... 000 (converted acc. to IEC)
Flexible conductor cross-section (ferrule with plastic sleeve)	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Nominal cross section	95 mm <sup>2</sup>
Thermal continuous current $I_{th}$	250 A
Nominal current	232 A
Nominal voltage	1000 V AC (suitable for 1500 V DC)

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## Load contact

Connection method	Screw connection
Screw thread	M8
Number of connections	2
Note	Ferrules are mandatory when using flexible conductors
Tightening torque	3.5 ... 5 Nm
Stripping length	11 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	12 ... 2 (converted acc. to IEC)
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>

## Load contact

Connection method	Screw connection
Screw thread	M6
Number of connections	5
Note	Ferrules are mandatory when using flexible conductors
Tightening torque	2 ... 3 Nm
Stripping length	11 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section AWG	12 ... 6 (converted acc. to IEC)
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>

## Load contact

Connection method	Screw connection
Screw thread	M6
Number of connections	4
Note	Ferrules are mandatory when using flexible conductors
Tightening torque	2 ... 3 Nm
Stripping length	11 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Cross section AWG	12 ... 8 (converted acc. to IEC)
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>

## Dimensions

Width	46.2 mm
Height	96 mm
Depth	60 mm
Depth on NS 35/7,5	61.5 mm
Depth on NS 35/15	69 mm

## Material specifications

Color	basalt gray (RAL 7012)
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Flammability rating according to UL 94	V0
Insulating material group	I
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 95 mm <sup>2</sup>	11.4 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	3.82 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

DIN rail/fixing support	NS 35
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	9 rpm
Revolutions	135
Conductor cross-section/weight	2.5 mm <sup>2</sup> / 0.7 kg
	16 mm <sup>2</sup> / 2.9 kg
	35 mm <sup>2</sup> / 6.8 kg
	120 mm <sup>2</sup> / 14 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	5 s
Result	Test passed

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## Ambient conditions

Degree of protection	IP10
Ambient temperature (operation)	-40 °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

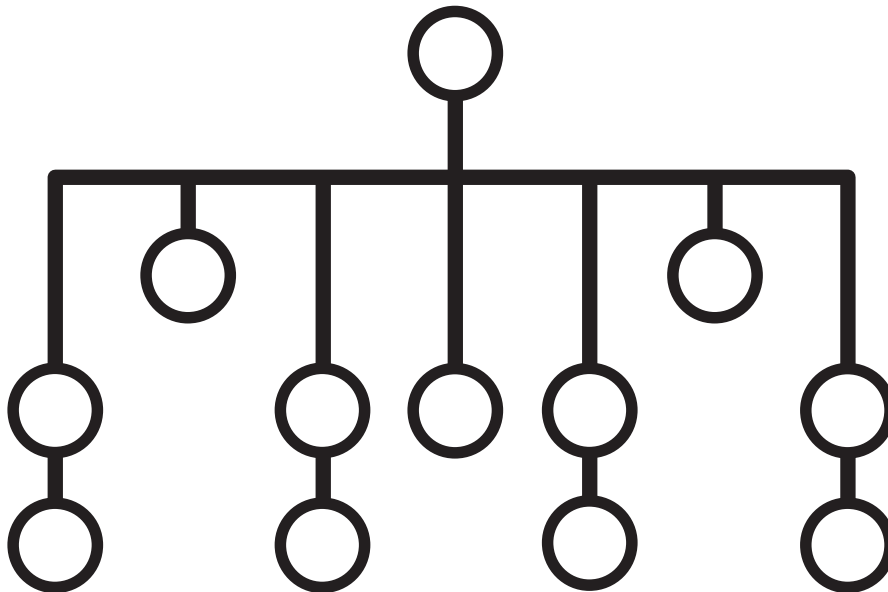
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1

## Mounting

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

Drawings

Circuit diagram



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## Approvals

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**UL Recognized**

Approval ID: E60425



**CSA**

Approval ID: 80247697

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## Classifications

### ECLASS

ECLASS-13.0	27250118
ECLASS-15.0	27250118

### 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
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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