

TB 35 CH I RD - Feed-through terminal block



3000944

<https://www.phoenixcontact.com/sg/products/3000944>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm², cross section: 10 mm² - 35 mm², mounting type: NS 35/7,5, NS 35/15, color: red

Commercial data

Item number	3000944
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	*****
Product key	BEK211
GTIN	4046356763196
Weight per piece (including packing)	51.58 g
Weight per piece (excluding packing)	51.58 g

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Technical data

Product properties

Product type	Feed-through 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	8 kV
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Connection data

Nominal cross section	35 mm ²
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	10 mm ² ... 35 mm ²
Cross section AWG	6 ... 2 (converted acc. to IEC)
Conductor cross section flexible	10 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	6 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm ² ... 35 mm ²
2 conductors with same cross section, solid	6 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG rigid	6 ... 4 (converted acc. to IEC)
2 conductors with same cross section, flexible	6 mm ² ... 8 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	6 mm ² ... 10 mm ²
Nominal current	125 A
Maximum load current	125 A
Nominal voltage	1000 V
Nominal cross section	35 mm ²

Dimensions

Width	16 mm
Height	53.5 mm
Depth on NS 35/7,5	62.1 mm
Depth on NS 35/15	69.6 mm

Material specifications

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Color	red
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 ≤ 45 K
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 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	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	10 mm ² / 2 kg
	35 mm ² / 6.8 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
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.)
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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
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Mounting

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

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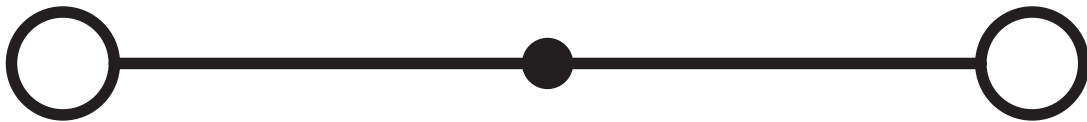
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Drawings

Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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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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