

# TB 10 EI BK - Feed-through terminal block



3000865

<https://www.phoenixcontact.com/in/products/3000865>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: black

## Commercial data

Item number	3000865
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1
Product key	BEK211
GTIN	4055626646039
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	39269098
Country of origin	IN

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## Technical data

### Product properties

Product type	Feed-through terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Potentials	1

### Data management status

Article revision	01
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.82 W

### Connection data

Number of connections per level	2
Nominal cross section	10 mm <sup>2</sup>
Screw thread	M4
Tightening torque	1.2 ... 1.4 Nm
Stripping length	10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section AWG	14 ... 6 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	14 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with same cross section, solid	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	16 ... 12 (converted acc. to IEC)
2 conductors with same cross section, flexible	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	16 ... 12 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Nominal current	57 A
Maximum load current	57 A (with 16 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V (in the case of enclosed clamping space)
Nominal cross section	10 mm <sup>2</sup>

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## Dimensions

Width	10.2 mm
End cover width	1.8 mm
Height	42.8 mm
Depth on NS 32	52.8 mm
Depth on NS 35/7,5	47 mm
Depth on NS 35/15	54.5 mm

## Material specifications

Color	black
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## 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 10 mm <sup>2</sup>	1.2 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

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## Mechanical strength

Result	Test passed
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## Attachment on the carrier

Result	Test passed
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## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	1.5 mm <sup>2</sup> / 0.4 kg
	10 mm <sup>2</sup> / 2 kg
	16 mm <sup>2</sup> / 2.9 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 <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	Half-sine
Acceleration	30g
Shock duration	18 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 %

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## 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
	NS 32

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/3000865>

 <b>UL Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	600 V	50 A	16 - 6	-
Use group C	600 V	50 A	16 - 6	-
Use group F	600 V	50 A	16 - 6	-
Use group D	600 V	5 A	16 - 6	-

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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

### ETIM

ETIM 8.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121410
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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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## Accessories

### SCBI 10-10 - Fixed bridge

3246146

<https://www.phoenixcontact.com/in/products/3246146>



Fixed bridge, number of positions: 10, color: silver

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### INB 10-10 - Insertion bridge

3246201

<https://www.phoenixcontact.com/in/products/3246201>



Insertion bridge, pitch: 10 mm, number of positions: 10, color: gray

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## D-TB 4/10 E - End cover

3246104

<https://www.phoenixcontact.com/in/products/3246104>



End cover, depth: 35.9 mm, width: 1.5 mm, height: 42.5 mm, color: dark gray

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## TS-TB - Separating plate

3062838

<https://www.phoenixcontact.com/in/products/3062838>



Separating plate, for electrical isolation of neighboring bridges in the terminal center, depth: 22 mm, height: 22 mm, color: dark gray

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## ATP-TB - Partition plate

3046272

<https://www.phoenixcontact.com/in/products/3046272>



Partition plate, depth: 45.7 mm, width: 3 mm, height: 56 mm, color: dark gray

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## NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/in/products/1201002>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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## NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

<https://www.phoenixcontact.com/in/products/1201015>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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## PS-MT - Test plug

0311647

<https://www.phoenixcontact.com/in/products/0311647>



Test plug, number of positions: 1, color: silver

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## PS-IH WH - Insulating sleeve

0311566

<https://www.phoenixcontact.com/in/products/0311566>



Insulating sleeve, number of positions: 1, color: white

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## PS-IH RD - Insulating sleeve

0311579

<https://www.phoenixcontact.com/in/products/0311579>



Insulating sleeve, number of positions: 1, color: red

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## PS-IH BU - Insulating sleeve

0311582

<https://www.phoenixcontact.com/in/products/0311582>



Insulating sleeve, number of positions: 1, color: blue

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## PS-IH YE - Insulating sleeve

0311595

<https://www.phoenixcontact.com/in/products/0311595>



Insulating sleeve, number of positions: 1, color: yellow

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## PS-IH GN - Insulating sleeve

0311605

<https://www.phoenixcontact.com/in/products/0311605>



Insulating sleeve, number of positions: 1, color: green

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## PS-IH GY - Insulating sleeve

0311621

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Insulating sleeve, number of positions: 1, color: gray



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## PS-IH BK - Insulating sleeve

0311634

<https://www.phoenixcontact.com/in/products/0311634>



Insulating sleeve, number of positions: 1, color: black

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## PS-IH VT - Insulating sleeve

0311618

<https://www.phoenixcontact.com/in/products/0311618>



Insulating sleeve, number of positions: 1, color: violet

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## SZS 1,0X4,0 VDE - Screwdriver

1205066

<https://www.phoenixcontact.com/in/products/1205066>



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

## E/TB - End bracket

3246966

<https://www.phoenixcontact.com/in/products/3246966>



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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