

# TB 10 EI BU - Feed-through terminal block



3246748

<https://www.phoenixcontact.com/in/products/3246748>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, 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: blue

## Commercial Data

Item number	3246748
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE1
Product Key	BE1411
GTIN	4046356605649
Weight per Piece (including packing)	15.413 g
Weight per Piece (excluding packing)	15.413 g
Customs tariff number	85369010
Country of origin	IN

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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
Maximum power dissipation for nominal condition	2.43 W

### Connection data

Number of connections per level	2
Nominal cross section	10 mm <sup>2</sup>

### Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.2 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	16 ... 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]	16 ... 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>
Nominal current	57 A
Maximum load current	57 A
Nominal voltage	1000 V (in the case of enclosed clamping space)
Nominal cross section	10 mm <sup>2</sup>

### Dimensions

Width	10.2 mm
End cover width	1.8 mm

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Height	42.8 mm
Height NS 35/15	54.5 mm
Height NS 35/7,5	47 mm
Height	1.85 "
Height NS 32	52.8 mm
Length	42.8 mm

## Material specifications

Color	blue
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

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

### 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
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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 ... 105 °C (max. short-term operating temperature 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 (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
	NS 32

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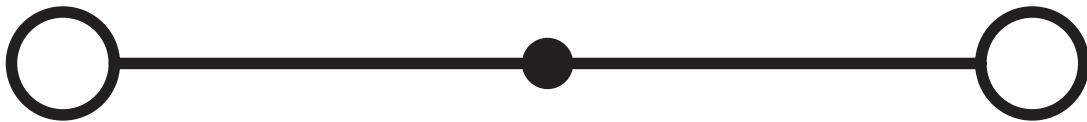
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## Drawings

### Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/3246748>

 <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 7.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121410
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## Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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## Accessories

### 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, length: 42.5 mm, width: 1.5 mm, height: 35.9 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, length: 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, length: 56 mm, width: 3 mm, height: 45.7 mm, color: dark gray

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## TPS 4/7/6 - Female test connector

3246243

<https://www.phoenixcontact.com/in/products/3246243>



Female test connector, for 4 mm test plugs, for screwing into the bridge shaft, number of positions: 1, color: silver

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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

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## E/TB - End clamp

3246966

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



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

1201002

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

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



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

1201015

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



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

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## PS-MT - Test plugs

0311647

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



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

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## PS-IH WH - Insulating sleeve

0311566

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

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## PS-IH RD - Insulating sleeve

0311579

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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

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

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## PS-IH VT - Insulating sleeve

0311618

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

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