

TB 16 I - Feed-through terminal block



3246353

<https://www.phoenixcontact.com/sg/products/3246353>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 16 mm², cross section: 6 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray

Commercial data

Item number	3246353
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BEK211
GTIN	4046356608435
Weight per piece (including packing)	26.26 g
Weight per piece (excluding packing)	25.43 g
Customs tariff number	85369010
Country of origin	IN

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Technical data

Notes

General

Note	For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors.
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Product properties

Product family	TB
Number of positions	1
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	16 mm ²
Rated cross section AWG	6
Connection method	Screw connection
Screw thread	M5
Tightening torque	2.5 ... 3 Nm
Stripping length	12 mm
Internal cylindrical gage	A7
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	6 mm ² ... 16 mm ²
Cross section AWG	8 ... 6 (converted acc. to IEC)
Conductor cross-section flexible	6 mm ² ... 16 mm ²
Conductor cross-section, flexible [AWG]	8 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	6 mm ² ... 16 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	6 mm ² ... 16 mm ²
2 conductors with same cross section, rigid	4 mm ² ... 6 mm ²
2 conductors with same cross section, flexible	4 mm ² ... 6 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	4 mm ² ... 6 mm ²
Nominal cross section	16 mm ²
Nominal current	76 A

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Maximum load current	76 A (with 16 mm ² conductor cross-section)
Nominal voltage	1000 V

Dimensions

Width	12.2 mm
Height	51 mm
Depth on NS 35/7,5	50.5 mm
Depth on NS 35/15	58 mm

Material specifications

Color	traffic gray B (RAL 7043)
Flammability rating according to UL 94	V0
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 ≤ 45 K
Result	Test passed
Short-time withstand current 16 mm ²	1.92 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

DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	6 mm ² / 1.4 kg
	16 mm ² / 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):2022-06
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 ²) ² /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, 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 %

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Permissible humidity (storage/transport)
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30 % ... 70 %

Standards and regulations

Connection in acc. with standard

IEC 60947-7-1

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/sg/products/3246353>

 UL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	76 A	10 - 4	-
C				
	600 V	76 A	10 - 4	-

 EAC Approval ID: KZ7500651131219505				
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 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	76 A	10 - 4	-
C				
	600 V	76 A	10 - 4	-

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Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 9.0	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, 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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Accessories



Note: Applying some accessories below might limit this product.

SCBI 10-12 - Screw bridge

3246159

<https://www.phoenixcontact.com/sg/products/3246159>



Screw bridge, with insulating collar, number of positions: 10, color: silver-colored



Max. current carrying capacity: 76 A

INB 10-12 - Insertion bridge

3246214

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Insertion bridge, Bridging in the terminal point, pitch: 12 mm, number of positions: 10, color: gray



Max. current carrying capacity: 76 A

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D-TB 16 - Cover

3059922

<https://www.phoenixcontact.com/sg/products/3059922>



Cover, depth: 42.8 mm, width: 2.2 mm, height: 50 mm, color: dark gray

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

1201002

<https://www.phoenixcontact.com/sg/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/sg/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-colored

PS-MT - Test plug

0311647

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



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

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PS-IH WH - Insulating sleeve

0311566

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

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



PS-IH RD - Insulating sleeve

0311579

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

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



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PS-IH BU - Insulating sleeve

0311582

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

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



PS-IH YE - Insulating sleeve

0311595

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



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PS-IH GN - Insulating sleeve

0311605

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



PS-IH GY - Insulating sleeve

0311621

<https://www.phoenixcontact.com/sg/products/0311621>

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



PS-IH VT - Insulating sleeve

0311618

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



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SZS 1,0X6,5 VDE - Screwdriver

1205079

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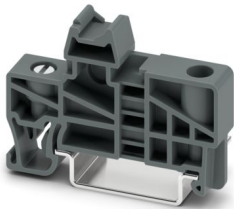


Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

E/TB - End bracket

3246966

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End bracket, material: PA, mounting type: NS 35/7,5, NS 35/15, color: dark gray

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