

TB 16 EI - Feed-through terminal block



5792172

<https://www.phoenixcontact.com/in/products/5792172>

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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	5792172
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1
Product key	BEK211
GTIN	4046356501736
Weight per piece (including packing)	25.422 g
Weight per piece (excluding packing)	25.422 g
Customs tariff number	39269098
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 type	Feed-through terminal block
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
Screw thread	M4
Tightening torque	2.5 ... 3 Nm
Stripping length	12 mm
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
Cross-section with insertion bridge, rigid	16 mm ²
Cross-section with insertion bridge, flexible	16 mm ²
2 conductors with same cross section, solid	4 mm ² ... 10 mm ²
2 conductors with same cross section, flexible	4 mm ² ... 10 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	4 mm ² ... 6 mm ²
Nominal current	76 A
Maximum load current	76 A
Nominal voltage	1000 V

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5792172

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Note	Checked at 1100 V
Nominal cross section	16 mm ²

Dimensions

Width	12.2 mm
End cover width	1.5 mm
Height	51 mm
Depth on NS 32	55.5 mm
Depth on NS 35/7,5	50.5 mm
Depth on NS 35/15	58 mm

Material specifications

Color	dark gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

Electrical tests

Surge voltage test

Test voltage setpoint	8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature \leq 45 K
Result	Test passed
	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

Mechanical strength

Result	Test passed
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Attachment on the carrier

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5792172

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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):2008-03 (in parts)
Spectrum	Service life test category 2, bogie-mounted
Frequency	5 - 250 Hz
ASD level	6.12 (m/s ²)/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03 (in parts)
Pulse shape	Semi-sinusoidal
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 %

Standards and regulations

TB 16 EI - Feed-through terminal block



5792172

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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/5792172>



EAC

Approval ID: RU C-DE.A*30.B.01742



UL Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	76 A	10 - 4	-
Use group C	600 V	76 A	10 - 4	-

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5792172

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 8.0	EC000897
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TB 16 EI - Feed-through terminal block



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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 10-12 - Screw bridge

3246159

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



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

INB 10-12 - Insertion bridge

3246214

<https://www.phoenixcontact.com/in/products/3246214>



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

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5792172

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D-TB 16 E - End cover

5793004

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End 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/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

TB 16 EI - Feed-through terminal block

5792172

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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

PS-MT - Test plug

0311647

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



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

TB 16 EI - Feed-through terminal block

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PS-IH WH - Insulating sleeve

0311566

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

PS-IH RD - Insulating sleeve

0311579

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

TB 16 EI - Feed-through terminal block

5792172

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PS-IH BU - Insulating sleeve

0311582

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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

TB 16 EI - Feed-through terminal block

5792172

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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/in/products/0311621>



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

TB 16 EI - Feed-through terminal block

5792172

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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

PS-IH VT - Insulating sleeve

0311618

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



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

TB 16 EI - Feed-through terminal block



5792172

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SZS 1,0X6,5 VDE - Screwdriver

1205079

<https://www.phoenixcontact.com/in/products/1205079>



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

<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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