

TB 35 CH I - Feed-through terminal block



3000776

<https://www.phoenixcontact.com/ae/products/3000776>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, number of positions: 1, 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: dark gray

Commercial data

Item number	3000776
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BEK
Product key	BEK211
GTIN	4046356727532
Weight per piece (including packing)	53.7 g
Weight per piece (excluding packing)	53.7 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

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	4.06 W

Connection data

Nominal cross section	35 mm ²
Connection method	Screw connection
Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Internal cylindrical gage	A9
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, rigid	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 cross section	35 mm ²
Nominal current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross-section)
Nominal voltage	1000 V

Dimensions

Width	16 mm
Height	53.5 mm

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Depth on NS 35/7,5	62.1 mm
Depth on NS 35/15	69.6 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 35 mm ²	4.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	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

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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.)
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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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ae/products/3000776>

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	115 A	8 - 2	-
C				
	600 V	115 A	8 - 2	-

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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
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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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EF3.1 Climate Change

CO2e kg	0.333 kg CO2e
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Accessories



Note: Applying some accessories below might limit this product.

SCBI 2-16 W - Screw bridge

3000838

<https://www.phoenixcontact.com/ae/products/3000838>



Screw bridge, with spring washer and insulating collar, pitch: 16 mm, number of positions: 2, color: silver-colored



Max. current carrying capacity: 125 A

SCBI 3-16 W - Screw bridge

3000839

<https://www.phoenixcontact.com/ae/products/3000839>



Screw bridge, with spring washer and insulating collar, pitch: 16 mm, number of positions: 3, color: silver-colored



Max. current carrying capacity: 125 A

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SCBI 4-16 W - Screw bridge

3000840

<https://www.phoenixcontact.com/ae/products/3000840>



Screw bridge, with spring washer and insulating collar, pitch: 16 mm, number of positions: 4, color: silver-colored

 Max. current carrying capacity: 125 A

SCBI 5-16 W - Screw bridge

3000841

<https://www.phoenixcontact.com/ae/products/3000841>



Screw bridge, with spring washer and insulating collar, pitch: 16 mm, number of positions: 5, color: silver-colored

 Max. current carrying capacity: 125 A

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INB 2-15 - Insertion bridge

3246227

<https://www.phoenixcontact.com/ae/products/3246227>

Insertion bridge, pitch: 15 mm, number of positions: 2, color: gray



UM-TM (16X10) - Marker for terminal blocks

0830941

<https://www.phoenixcontact.com/ae/products/0830941>

Marker for terminal blocks, Strip, white, unmarked, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, Number of individual labels: 8, text field height: 10 mm, text field width: 16 mm



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NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/ae/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

<https://www.phoenixcontact.com/ae/products/0801681>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver-colored

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NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

<https://www.phoenixcontact.com/ae/products/1204119>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, white passivated, Standard profile, color: silver-colored

NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/ae/products/1204122>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, white passivated, Standard profile, color: silver-colored

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NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

<https://www.phoenixcontact.com/ae/products/0801704>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver-colored

NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

<https://www.phoenixcontact.com/ae/products/1206421>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, zinc plating, Standard profile, color: silver-colored

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NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

<https://www.phoenixcontact.com/ae/products/1206434>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, zinc plating, Standard profile, color: silver-colored

NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/ae/products/0801762>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

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NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/ae/products/1206560>

DIN rail end piece, for DIN rail NS 35/7.5



PS-MT - Test plug

0311647

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

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



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PS-IH WH - Insulating sleeve

0311566

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

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



PS-IH RD - Insulating sleeve

0311579

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

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



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PS-IH BU - Insulating sleeve

0311582

<https://www.phoenixcontact.com/ae/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

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

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



PS-IH GY - Insulating sleeve

0311621

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

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



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PS-IH BK - Insulating sleeve

0311634

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

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



PS-IH VT - Insulating sleeve

0311618

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

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



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SZS 1,0X6,5 VDE - Screwdriver

1205079

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

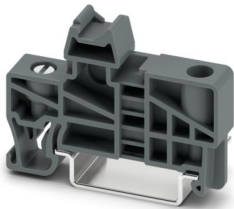


Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

E/TB - End bracket

3246966

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



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

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