

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, connection method: Screw connection, Rated cross section: 6 mm², cross section: 1.5 mm² - 6 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

Commercial data

Item number	3057681
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BEK211
Product key	BEK211
GTIN	4046356648240
Weight per piece (including packing)	11.62 g
Weight per piece (excluding packing)	11.62 g
Customs tariff number	85369010
Country of origin	CN

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Technical data

Product properties

Product type	Feed-through terminal block
Product family	TB
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	1.31 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm ²
Rated cross section AWG	8
Connection method	Screw connection
Screw thread	M4
Tightening torque	1.4 ... 1.5 Nm
Stripping length	10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	1.5 mm ² ... 6 mm ²
Cross section AWG	14 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	1.5 mm ² ... 6 mm ²
Conductor cross-section, flexible [AWG]	14 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm ² ... 6 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm ² ... 6 mm ²
Cross-section with insertion bridge, rigid	1 mm ² ... 4 mm ²
Cross-section with insertion bridge, flexible	1 mm ² ... 4 mm ²
2 conductors with same cross section, rigid	1 mm ² ... 4 mm ²
2 conductors with the same cross-section AWG rigid	16 ... 10 (converted acc. to IEC)
2 conductors with same cross section, flexible	1 mm ² ... 4 mm ²
2 conductors with the same cross-section AWG flexible	16 ... 10 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1 mm ² ... 2.5 mm ²
Nominal cross section	6 mm ²
Nominal current	41 A
Maximum load current	41 A (with 6 mm ² conductor connection)
Nominal voltage	800 V

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Dimensions

Width	8.2 mm
End cover width	1.8 mm
Height	42.5 mm
Depth on NS 32	52 mm
Depth on NS 35/7,5	47 mm
Depth on NS 35/15	54.5 mm

Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

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 6 mm ²	0.72 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
-----------------	-----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
----------------	--------

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Revolutions	135
Conductor cross-section/weight	1.5 mm ² / 0.4 kg
	6 mm ² / 1.4 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 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 %
Permissible humidity (storage/transport)	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

TB 6 I BU - Feed-through terminal block

3057681

<https://www.phoenixcontact.com/gb/products/3057681>



Drawings

Circuit diagram



TB 6 I BU - Feed-through terminal block





3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/3057681>

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	600 V	50 A	16 - 8	-
C	600 V	50 A	16 - 8	-

 EAC Approval ID: KZ7500651131219505	
---	--

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	EC000897
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

TB 6 I BU - Feed-through terminal block



3057681

<https://www.phoenixcontact.com/gb/products/3057681>

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%
-------------------------------------	----------------------------

EF3.1 Climate Change

CO2e kg	0.147 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk