

UK 2,5 B BU - Feed-through terminal block



3001048
<https://www.phoenixcontact.com/us/products/3001048>

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: 690 V, nominal current: 24 A, number of connections: 2, connection method: Screw connection, cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: blue

Commercial data

Item number	3001048
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1211
GTIN	4017918089795
Weight per piece (including packing)	7.2 g
Weight per piece (excluding packing)	7 g
Customs tariff number	85369010
Country of origin	IN

UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

Technical data

Product properties

Product type	Feed-through terminal block
Product family	UK
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	0 W

Connection data

Number of connections per level	2
---------------------------------	---

Level 1 above 1 below 1

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	7 mm
Internal cylindrical gage	A3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 1 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1 mm ²
2 conductors with same cross section, flexible	0.25 mm ² ... 1 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Nominal current	24 A
Nominal voltage	690 V
Connection in acc. with standard	UL
Cross section AWG	30 ... 12 (converted acc. to IEC)
Nominal current	20 A
Nominal voltage	300 V
Connection in acc. with standard	CSA
Cross section AWG	22 ... 12 (converted acc. to IEC)

UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

Nominal current	25 A
Nominal voltage	300 V

Dimensions

Width	6.2 mm
End cover width	1.5 mm
Height	42.5 mm
Depth on NS 32	47 mm
Depth on NS 35/7,5	42 mm
Depth on NS 35/15	49.5 mm

Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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 2.5 mm ²	0.3 kA
Short-time withstand current 4 mm ²	0.48 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

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	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm ² / 0.2 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 0.9 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	UL
	CSA

Mounting

Mounting type	NS 35/7,5
	NS 35/15

UK 2,5 B BU - Feed-through terminal block

3001048

<https://www.phoenixcontact.com/us/products/3001048>



Drawings

Circuit diagram



UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3001048>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	25 A	28 - 12	-
Use group C	600 V	25 A	28 - 12	-

 EAC Approval ID: KZ7500651131219505				
---	--	--	--	--

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	20 A	30 - 12	-
Use group C	300 V	20 A	30 - 12	-
Use group F	600 V	20 A	30 - 12	-
Use group D	600 V	5 A	30 - 12	-

UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

Classifications

ECLASS

ECLASS-13.0	27250101
-------------	----------

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

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

UK 2,5 B BU - Feed-through terminal block



3001048

<https://www.phoenixcontact.com/us/products/3001048>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	3efba958-aac6-40c5-af57-7fb71b332c15

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com