UK 5-TWIN BU - Feed-through terminal block

1923047

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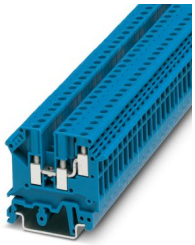

Feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, connection method: Screw connection, 1 level, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

Your advantages

- These twin modular terminal blocks are designed for the basic task of potential branching
- Two independent conductor connections can be used on the control cabinet side
- Universal foot for mounting on NS 35.. or NS 32... DIN rails
- Easy connection of different types of conductors with different cross sections
- Can be bridged in the terminal center, even with neighboring feed-through terminal blocks aligned

Commercial data

Item number	1923047
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1212
GTIN	4017918052447
Weight per piece (including packing)	12.663 g
Weight per piece (excluding packing)	11.7 g
Customs tariff number	85369010
Country of origin	CN

Technical data

Notes

General

Note	The max. load current must not be exceeded by the total current of all connected conductors.

Product properties

Product type	Multi-conductor terminal block
Product family	UK
Number of connections	3
Number of rows	2
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	3
Nominal cross section	4 mm²

1 level

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	8 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	4 mm²
2 conductors with same cross section, rigid	0.2 mm² ... 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Nominal cross section	4 mm²
Nominal current	32 A (with 4 mm² conductor cross-section)
Maximum load current	32 A (in case of a 4 mm² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	500 V (With tightened clamping screws)

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 G Ex eb IIC Gb
Operating temperature range	-50 °C ... 110 °C
Ex-certified accessories	1923034 D-UK 5-TWIN
	9911501 UK 5-TWIN DECKELSEGMENTGY7042
	1205053 SZS 0,6X3,5
Ex temperature increase	33 K (32 A / 4 mm²)
Rated insulation voltage	250 V
output	(Permanent)

Ex level General

Rated voltage	275 V
Rated current	32 A
Maximum load current	32 A
Contact resistance	0.34 mΩ

Ex connection data General

Stripping length	8 mm
Torque range	0.6 Nm ... 0.8 Nm
Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
2 conductors with same cross section, solid	0.2 mm² ... 1.5 mm²
2 conductors with the same cross-section AWG rigid	24 ... 16
2 conductors with same cross section, stranded	0.2 mm² ... 1.5 mm²
2 conductors with the same cross-section AWG flexible	24 ... 16

Dimensions

Width	6.2 mm
End cover width	2 mm
Height	50.5 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
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 4 mm²	0.48 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	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/s²)²/Hz
Acceleration	30.6 m/s²
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	300 m/s²
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

	NS 35/7,5

Mounting type	NS 35/15
	NS 32

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1923047

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	30 A	22 - 10	-

IECEE CB Scheme
Approval ID: NL-65052

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	32 A	-	- 4

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Field wiring	300 V	30 A	30 - 10	-
Factory wiring	300 V	35 A	30 - 10	-
C				
Field wiring	150 V	30 A	30 - 10	-
Factory wiring	150 V	35 A	30 - 10	-

KEMA-KEUR
Approval ID: 71-119845

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	32 A	-	0.2 - 4

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	-	-
C				
	150 V	30 A	-	-
D				
	300 V	10 A	-	-

DNV
Approval ID: TAE00001CT

cUL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	150 V	30 A	30 - 10	-

UL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	150 V	30 A	30 - 10	-

Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

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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