

UK 1,5 N VT - Feed-through terminal block



3005841

<https://www.phoenixcontact.com/us/products/3005841>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Screw connection, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: violet

Your advantages

- Universal foot which can be used on NS 35... and NS 32... DIN rails
- The UK universal screw terminal block series has the typical features which are decisive for practical applications
- Potential distribution via fixed bridges in the terminal center or insertion bridges in the clamping space

Commercial data

Item number	3005841
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1211
GTIN	4046356916363
Weight per piece (including packing)	5.32 g
Weight per piece (excluding packing)	4.3 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	Feed-through terminal block
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	03
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm ²

Level 1 above 1 below 1

Screw thread	M2
Tightening torque	0.22 ... 0.25 Nm
Stripping length	7 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 0.75 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 0.75 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 0.75 mm ²
2 conductors with same cross section, flexible	0.14 mm ² ... 0.75 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.5 mm ²
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

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Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3001022 D-UK 2,5
	1205037 SZS 0,4X2,5 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FBRN 10-4 N / 3001624
	Fixed bridge / FBRN 20-4 N / 3001637
Bridge data	15.5 A / 1.5 mm ²
Ex temperature increase	40 K (17.5 A / 1.5 mm ²)
Rated voltage	352 V
for bridging with bridge	352 V
- At bridging between non-adjacent terminal blocks	69 V
Rated insulation voltage	320 V
output	(Permanent)

Ex level General

Rated current	15.5 A
Maximum load current	15.5 A
Contact resistance	0.45 mΩ

Ex connection data General

Torque range	0.22 Nm ... 0.25 Nm
Nominal cross section	1.5 mm ²
Rated cross section AWG	16
Connection capacity rigid	0.14 mm ² ... 1.5 mm ²
Connection capacity AWG	26 ... 16
Connection capacity flexible	0.14 mm ² ... 1.5 mm ²
Connection capacity AWG	26 ... 16
2 conductors with same cross section, solid	0.14 mm ² ... 0.75 mm ²
2 conductors with the same cross-section AWG rigid	26 ... 18
2 conductors with same cross section, stranded	0.14 mm ² ... 0.75 mm ²
2 conductors with the same cross-section AWG flexible	26 ... 18

Dimensions

Width	4.2 mm
End cover width	1.5 mm

Material specifications

Color	violet (RAL 4005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

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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	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 1.5 mm ²	0.18 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
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Mechanical tests

Mechanical strength

Result	Test passed
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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	0.14 mm ² / 0.2 kg

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	1.5 mm ² / 0.4 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

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 (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
	NS 32
Thread type	()

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3005841>

DNV

Approval ID: TAE00001CT



EAC

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



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	15 A	30 - 14	-
Use group C				
	300 V	15 A	30 - 14	-
Use group F				
	500 V	15 A	30 - 14	-
Use group D				
	600 V	5 A	30 - 14	-



BV

Approval ID: 07774/E0 BV



ATEX

Approval ID: KEMA98ATEX1651U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Type examination certificate	352 V	17 A	-	0.14 - 1.5



EAC Ex

Approval ID: RU C-DE.HA91.B.00066



IECEx

Approval ID: IECEx KEM 06.0034U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	352 V	17 A	-	0.14 - 1.5

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CCC

Approval ID: 2020322313000623

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	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
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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