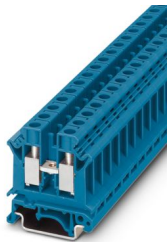


UK 10 N BU - Feed-through terminal block



3005086
<https://www.phoenixcontact.com/sg/products/3005086>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 57 A, number of connections: 2, connection method: Screw connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

Your advantages

- All universal terminal blocks in the UK... series can also be used in the Ex e area according to IEC/EN 60079 as standard
- The corresponding EC-type examination numbers for Ex approval can be found in the technical connection data

Commercial data

Item number	3005086
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	0100*
Product key	BE1211
Catalog page	Page 461 (C-1-2019)
GTIN	4017918091026
Weight per piece (including packing)	16.079 g
Weight per piece (excluding packing)	17.006 g
Customs tariff number	85369010
Country of origin	CN

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3005086

<https://www.phoenixcontact.com/sg/products/3005086>

Technical data

Product properties

Product type	Feed-through terminal block
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	1.82 W

Connection data

Number of connections per level	2
Nominal cross section	10 mm ²

Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	10 mm
Internal cylindrical gage	B6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 16 mm ²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 10 mm ²
Conductor cross section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 10 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
Cross-section with insertion bridge, rigid	10 mm ²
Cross-section with insertion bridge, flexible	10 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 6 mm ²
Nominal current	57 A
Maximum load current	76 A (with 16 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	10 mm ²

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3005086

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Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3003020 D-UK 4/10
	3006027 D-UK 16
	3004210 ATP-UK 5-MTK
	1205066 SZS 1,0X4,0 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FBI 10-10-EX / 0711690
Bridge data	51.5 A / 10 mm²
List of bridges	Insertion bridge / EB 2-10 / 0203153
	Insertion bridge / EB 3-10 / 0203328
	Insertion bridge / EB 10-10 / 0203137
Bridge data	50 A / 10 mm²
Ex temperature increase	40 K (59.1 A / 10 mm²)
Rated voltage	690 V
at bridging with insertion bridge	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	53.5 A
Maximum load current	67 A
Contact resistance	0.12 mΩ

Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	10 mm²
Rated cross section AWG	8
Connection capacity rigid	0.5 mm² ... 16 mm²
Connection capacity AWG	20 ... 6
Connection capacity flexible	0.5 mm² ... 10 mm²
Connection capacity AWG	20 ... 8
2 conductors with same cross section, solid	0.5 mm² ... 4 mm²
2 conductors with the same cross-section AWG rigid	20 ... 12
2 conductors with same cross section, stranded	0.5 mm² ... 4 mm²
2 conductors with the same cross-section AWG flexible	20 ... 12

Dimensions

Width	10.2 mm
End cover width	1.8 mm
Height	42.5 mm

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3005086

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Depth on NS 32	52.3 mm
Depth on NS 35/7,5	47.3 mm
Depth on NS 35/15	54.8 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 10 mm ²	1.2 kA
Short-time withstand current 16 mm ²	1.92 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Mechanical strength

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3005086

<https://www.phoenixcontact.com/sg/products/3005086>

Result	Test passed
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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
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	10 mm ² / 2 kg
	16 mm ² / 2.9 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	IEC 60947-7-1
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Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32

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3005086

<https://www.phoenixcontact.com/sg/products/3005086>



Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3005086>

DNV

Approval ID: TAE00001CT



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	65 A	24 - 6	-
Use group C				
	600 V	65 A	24 - 6	-



IECEE CB Scheme

Approval ID: NL-39959

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	800 V	57 A	-	- 10



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	65 A	24 - 6	-
Use group C				
	600 V	65 A	24 - 6	-
Use group F				
	800 V	65 A	24 - 6	-

CCA

Approval ID: NTR-NL 3071

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	800 V	-	-	- 10



KEMA-KEUR

Approval ID: 71-119849

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	800 V	57 A	-	- 10

UK 10 N BU - Feed-through terminal block



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ATEX

Approval ID: KEMA98ATEX1786U



cUL Recognized

Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	65 A	24 - 6	-



GL

Approval ID: 98876-96 HH

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
EEx e II part certificate	690 V	57 A	-	- 10



IECEx

Approval ID: IECEx KEM 06.0029U



UL Recognized

Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	65 A	24 - 6	-



CCC

Approval ID: 2020322313000623



DNV GL-EX

Approval ID: TAE00003K6

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
EEx e II part certificate	440 V	32 A	-	- 2.5

cULus Recognized

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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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