

Feed-through terminal block - UK 16 N GN



3000570

<https://www.phoenixcontact.com/de/produkte/3000570>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 76 A, connection method: Screw connection, Rated cross section: 16 mm², cross section: 2.5 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: green

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	3000570
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	A1 - Reihenklemmen
Product Key	BE1211
GTIN	4055626139012
Weight per Piece (including packing)	23,368 g
Weight per Piece (excluding packing)	23,368 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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	2.43 W

Connection data

Number of connections per level	2
Nominal cross section	16 mm ²

Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	11 mm
Internal cylindrical gage	B7
Conductor cross section solid	2.5 mm ² ... 25 mm ²
Cross section AWG	14 ... 4
Conductor cross section flexible	4 mm ² ... 16 mm ²
Conductor cross section, flexible [AWG]	12 ... 6
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	1.5 mm ² ... 16 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm ² ... 16 mm ²
Cross-section with insertion bridge, rigid	16 mm ²
Cross-section with insertion bridge, flexible	16 mm ²
2 conductors with same cross section, solid	1.5 mm ² ... 6 mm ²
2 conductors with same cross section, flexible	1.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm ² ... 6 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm ² ... 10 mm ²
Nominal current	76 A
Maximum load current	101 A (with 25 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	16 mm ²

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Ex data

Rated data (ATEX/IECEX)

ATEX certificate	KEMA 98 ATEX 1786 U
IEC Ex certificate	IECEX KEM 06.0029 U
Identification	□ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3006027 D-UK 16 1205066 SZS 1,0X4,0 VDE 1201442 E/UK
Bridge data	66 A / 16 mm ²
Ex temperature increase	40 K (75.1 A / 16 mm ²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V

Ex level General

Rated current	68 A
Maximum load current	91 A
Contact resistance	0.17 mΩ

Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	16 mm ²
Rated cross section AWG	6
Connection capacity rigid	2.5 mm ² ... 25 mm ²
Connection capacity AWG	14 ... 4
Connection capacity flexible	4 mm ² ... 16 mm ²
Connection capacity AWG	12 ... 6
2 conductors with same cross section, solid	1.5 mm ² ... 6 mm ²
2 conductors with the same cross-section AWG rigid	16 ... 10
2 conductors with same cross section, stranded	1.5 mm ² ... 4 mm ²
2 conductors with the same cross-section AWG flexible	16 ... 12

Dimensions

Width	12.2 mm
End cover width	1.5 mm
Height NS 35/15	61.5 mm
Height NS 35/7,5	54 mm
Height	2.126 "
Height NS 32	59 mm
Length	42.5 mm

Material specifications

Color	green
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Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature 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 (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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Drawings

Circuit diagram



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Approvals

 DNV Approval ID: TAE00001CT				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

 CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	85 A	22 - 4	-

 IECEE CB Scheme Approval ID: NL-65062				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	800 V	76 A	-	- 16

 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	85 A	22 - 4	-
Use group C	600 V	85 A	22 - 4	-
Use group F	800 V	85 A	22 - 4	-

 KEMA-KEUR Approval ID: 71-113414				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	800 V		-	- 16

 KR Approval ID: HMB17372-EL001				
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 ClassNK Approval ID: 09 ME 141				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

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RS

Approval ID: 17.00013.272



BV

Approval ID: 05401/C0 BV

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	800 V	82 A	-	- 16



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	85 A	22 - 4	-



EAC Ex

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



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	74 A	-	- 16



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	85 A	22 - 4	-



CCC

Approval ID: 2020322313000623



NEPSI

Approval ID: GYJ20.1195U

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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-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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