

UK 35-IB BU - Feed-through terminal block



3048072

<https://www.phoenixcontact.com/us/products/3048072>

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Feed-through terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, connection method: Screw connection, cross section: 0.75 mm² - 50 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts

Commercial data

Item number	3048072
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1211
GTIN	4017918879693
Weight per piece (including packing)	57.69 g
Weight per piece (excluding packing)	55.6 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Notes

General

Note	When establishing a connection on the open housing side of a feed-through modular terminal block of the same series and size, the block must be provided with a cover if the expected insulation voltage is >320 V.
	The max. load current must not be exceeded by the total current of all connected conductors.

Product properties

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

Data management status

Article revision	09
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	8.68 W

Connection data

Number of connections per level	2
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Level 1 above 1 below 1

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.75 mm ² ... 50 mm ²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	18 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm ² ... 35 mm ²
2 conductors with same cross section, solid	0.75 mm ² ... 16 mm ²
2 conductors with same cross section, flexible	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, flexible, with ferrule	0.75 mm ² ... 10 mm ²

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm ² ... 6 mm ²
Nominal current	150 A
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal voltage	1000 V

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3008096 TP-UK 35
	1212640 SF-THEX 4-150
	1201442 E/UK
List of bridges	Fixed bridge / FBI 2-15 / 0201333
	Fixed bridge / FBI 3-15 / 0201278
Bridge data	118.5 A / 35 mm ²
List of bridges	Insertion bridge / EB 2-15 K/UK 35 / 0205119
	Insertion bridge / EB 10-15 / 0205135
Bridge data	105.5 A / 35 mm ²
List of bridges	Chain bridge / KBI- 15 / 0205203
Bridge data	116 A / 35 mm ²
Ex temperature increase	40 K (130.5 A / 35 mm ²)
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	118.5 A
Maximum load current	147 A
Contact resistance	0.08 mΩ

Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection capacity rigid	0.75 mm ² ... 50 mm ²
Connection capacity AWG	18 ... 1/0
Connection capacity flexible	0.75 mm ² ... 35 mm ²
Connection capacity AWG	18 ... 2
2 conductors with same cross section, solid	0.75 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG rigid	18 ... 6
2 conductors with same cross section, stranded	0.75 mm ² ... 10 mm ²

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2 conductors with the same cross-section AWG flexible	18 ... 8
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Dimensions

Width	15.1 mm
Height	50 mm
Depth on NS 32	67 mm
Depth on NS 35/7,5	62 mm
Depth on NS 35/15	69.5 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))	125 °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)	27,5 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

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 35 mm ²	4.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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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
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.75 mm ² / 0.4 kg
	35 mm ² / 6.8 kg
	50 mm ² / 9.5 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
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 %

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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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Approvals

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 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
With ATP	1000 V	150 A	18 - 1/0	-

 IECEE CB Scheme Approval ID: NL-26111				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	- 35

 EAC Approval ID: RU C-DE.BL08.B.00534				
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 KEMA-KEUR Approval ID: 71-119836				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	0.75 - 35

 ATEX Approval ID: KEMA98ATEX1786U				
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 IECEx Approval ID: IECEx KEM 06.0029U				
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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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