

# AKG 4 BK-EX - Connection terminal block



0421058

<https://www.phoenixcontact.com/us/products/0421058>

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Connection terminal block, nom. voltage: 300 V, nominal current: 32 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting: Neutral busbar, color: black

## Commercial data

Item number	0421058
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE73
Product key	BE7331
Catalog page	Page 554 (C-3-2019)
GTIN	4017918001957
Weight per piece (including packing)	5.494 g
Weight per piece (excluding packing)	5.41 g
Customs tariff number	85369010
Country of origin	IN

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## Technical data

### Product properties

Product type	Installation terminal block
Number of connections	1
Number of rows	1

### Electrical properties

Maximum load current	41 A
Maximum power dissipation for nominal condition	1.02 W
Nominal current $I_N$	32 A

### Connection data

Nominal cross section	4 mm <sup>2</sup>
Maximum load current	41 A

#### Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	16 mm
Conductor cross section rigid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	20 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Nominal current	32 A
Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross section)
Nominal voltage	300 V
Nominal cross section	4 mm <sup>2</sup>

### Ex data

#### Rated data (ATEX/IECEx)

Identification	⊕ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 125 °C
Ex-certified accessories	0404415 AB/SS-EX 0402006 NLS-CU 3/10 SN 2000MM 1212588 SF-SL 0,8X4,0-100 S-VDE

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Ex temperature increase	25 K (32 A / 4 mm <sup>2</sup> )
output	(Permanent)

## Ex level General

Rated current	32 A
Maximum load current	41 A
Contact resistance	0.08 mΩ

## Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	4 mm <sup>2</sup>
Rated cross section AWG	12
Connection capacity rigid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection capacity AWG	20 ... 10
Connection capacity flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	20 ... 12
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	20 ... 14
2 conductors with same cross section, stranded	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	20 ... 14

## Dimensions

Dimensional drawing	
Width	7 mm
Height	23.4 mm
Depth	24 mm
Length	23.4 mm

## Material specifications

Color	black
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

## Electrical tests

Result	Test passed
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

Result	Test passed
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## Environmental and real-life conditions

### Needle-flame test

Result	Test passed
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### 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 %

## Mounting

Mounting type	Neutral busbar
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## Classifications

### ECLASS

ECLASS-11.0	27141146
ECLASS-12.0	27141146
ECLASS-13.0	27250116

### ETIM

ETIM 9.0	EC000001
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### UNSPSC

UNSPSC 21.0	31162900
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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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