

AKG 4 BK-EX - Connection terminal block



0421058
<https://www.phoenixcontact.com/in/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 mm², cross section: 0.5 mm² - 6 mm², mounting: Neutral busbar, color: black

Commercial data

Item number	0421058
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE7
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

Data management status

Article revision	09
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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 ²
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 ² ... 6 mm ²
Cross section AWG	20 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 2.5 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 ... 2.5 mm ²
Nominal current	32 A
Maximum load current	41 A (with 6 mm ² conductor cross section)
Nominal voltage	300 V
Nominal cross section	4 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 125 °C

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Ex-certified accessories	0404415 AB/SS-EX
	0402006 NLS-CU 3/10 SN 2000MM
	1212588 SF-SL 0,8X4,0-100 S-VDE
Ex temperature increase	25 K (32 A / 4 mm ²)
output	(Permanent)

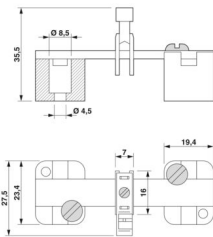
Ex level General

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 ²
Rated cross section AWG	12
Connection capacity rigid	0.5 mm ² ... 6 mm ²
Connection capacity AWG	20 ... 10
Connection capacity flexible	0.5 mm ² ... 4 mm ²
Connection capacity AWG	20 ... 12
2 conductors with same cross section, solid	0.5 mm ² ... 2.5 mm ²
2 conductors with the same cross-section AWG rigid	20 ... 14
2 conductors with same cross section, stranded	0.5 mm ² ... 2.5 mm ²
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 (RAL 9005)
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

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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

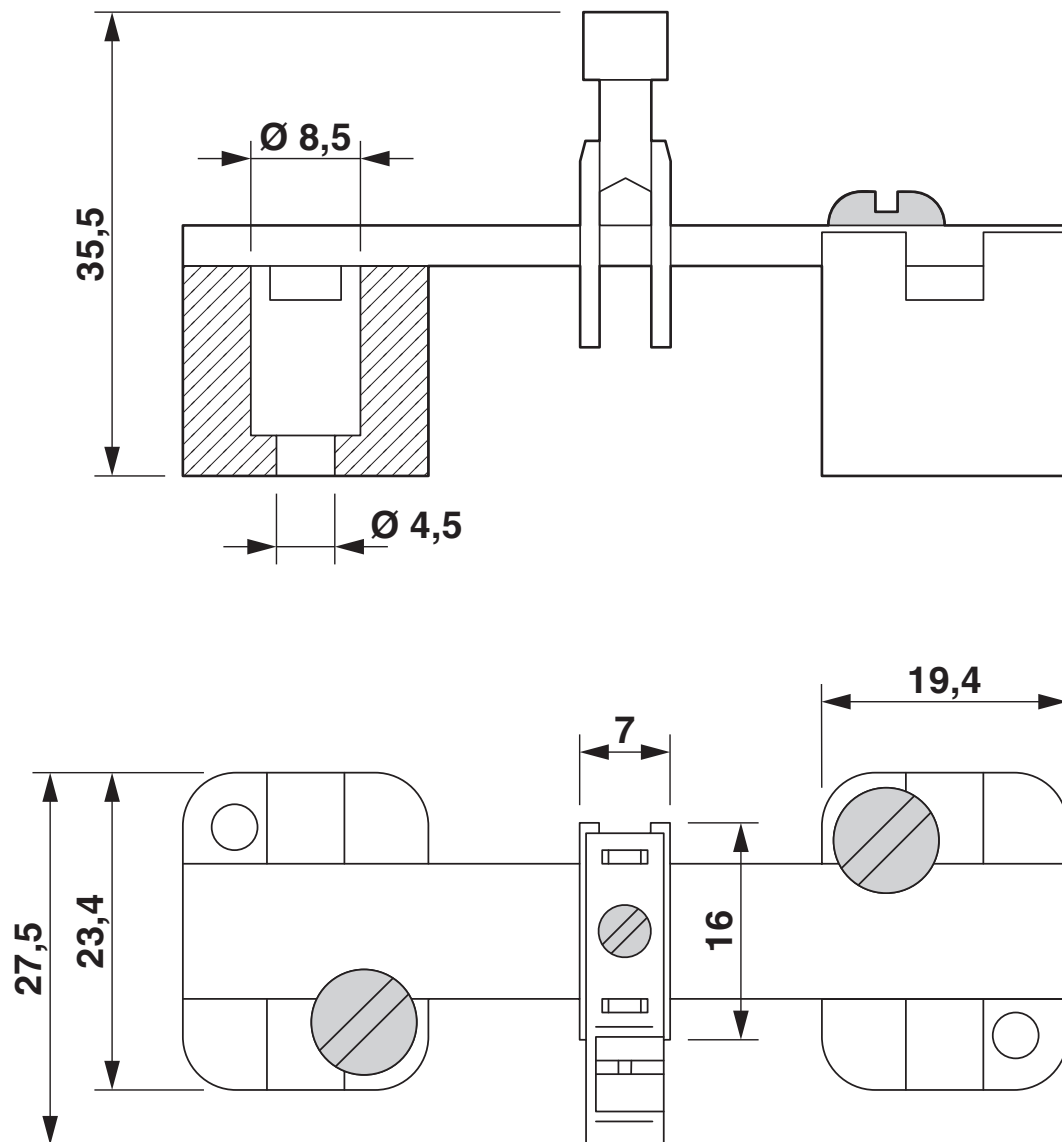
Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-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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Drawings

Dimensional drawing



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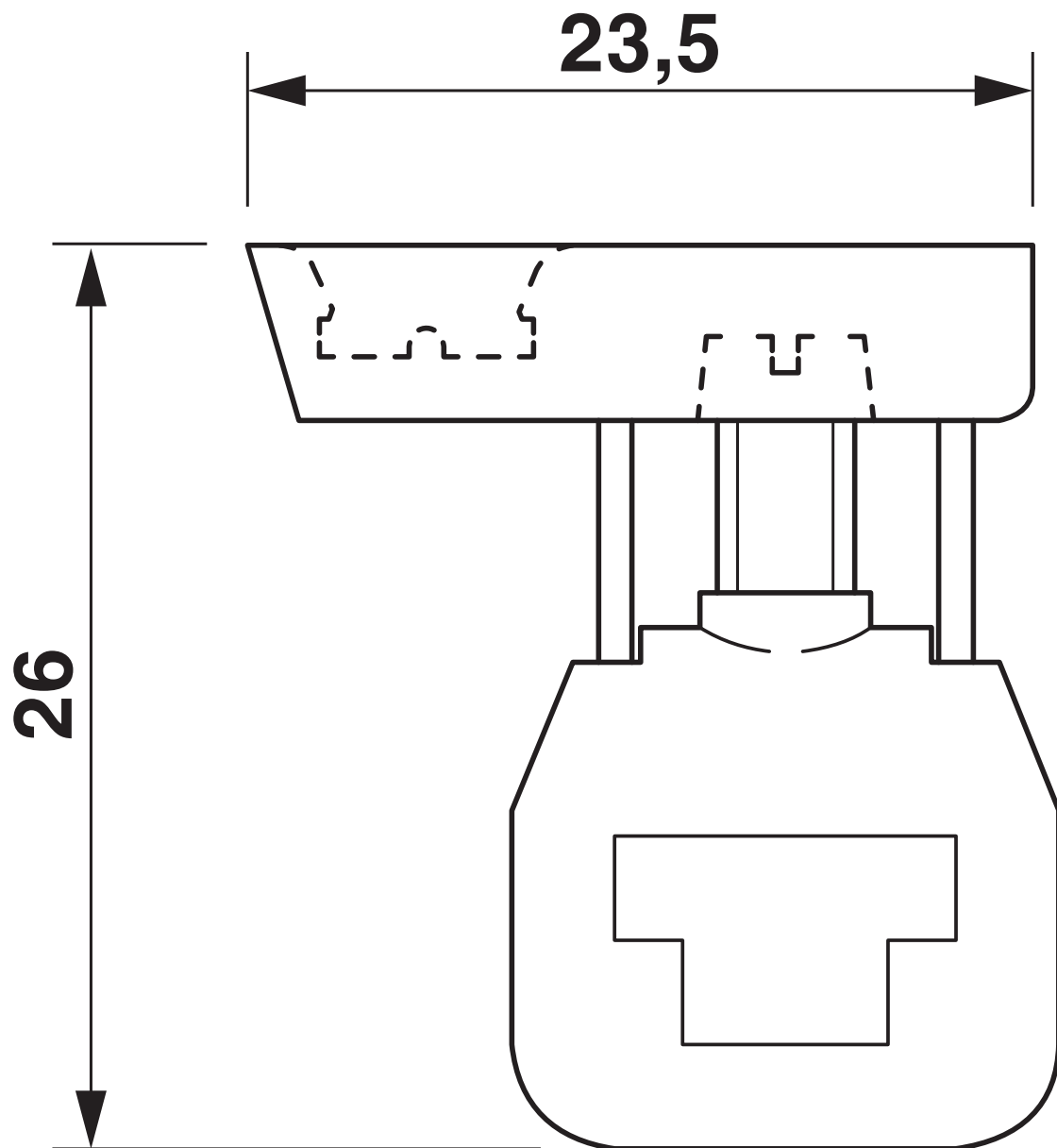
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Circuit diagram



Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/0421058>

	cUL Recognized Approval ID: E192998				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	20 A	22 - 12	22 - 12

	EAC Ex Approval ID: RU C-DE.HA91.B.00066
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	IECEX Approval ID: IECEXKIWA14.0005U
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	UL Recognized Approval ID: E192998				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	20 A	22 - 12	-

 ATEX Approval ID: KIWA14ATEX0011U				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Only flexible conductors	-	32 A	-	0.5 - 4
Only rigid conductors	-	41 A	-	0.5 - 6

	CCC Approval ID: 2020322313000874
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cULus Recognized

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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

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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