AKG 4 BK-EX - Connection terminal block

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^2, cross section: 0.5 mm^2 - 6 mm^2, mounting: Neutral busbar, color: black

Commercial data

Item number	0421058
Packing unit	50 pc
Minimum order quantity	50 pc
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

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 mm²
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 mm² ... 6 mm²
Cross section AWG	20 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² ... 4 mm²
Conductor cross section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² ... 6 mm²
2 conductors with same cross section, solid	0.5 mm² ... 2.5 mm²
2 conductors with same cross section, flexible	0.5 mm² ... 2.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² ... 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 2.5 mm²
Nominal current	32 A
Maximum load current	41 A (with 6 mm² conductor cross section)
Nominal voltage	300 V
Nominal cross section	4 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx 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

Ex temperature increase	25 K (32 A / 4 mm²)
output	(Permanent)

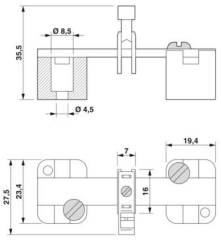
Ex level General

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 mm²
Rated cross section AWG	12
Connection capacity rigid	0.5 mm² ... 6 mm²
Connection capacity AWG	20 ... 10
Connection capacity flexible	0.5 mm² ... 4 mm²
Connection capacity AWG	20 ... 12
2 conductors with same cross section, solid	0.5 mm² ... 2.5 mm²
2 conductors with the same cross-section AWG rigid	20 ... 14
2 conductors with same cross section, stranded	0.5 mm² ... 2.5 mm²
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

Electrical tests

Result	Test passed

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

Result	Test passed

Environmental and real-life conditions

Needle-flame test

Result	Test passed

Ambient conditions

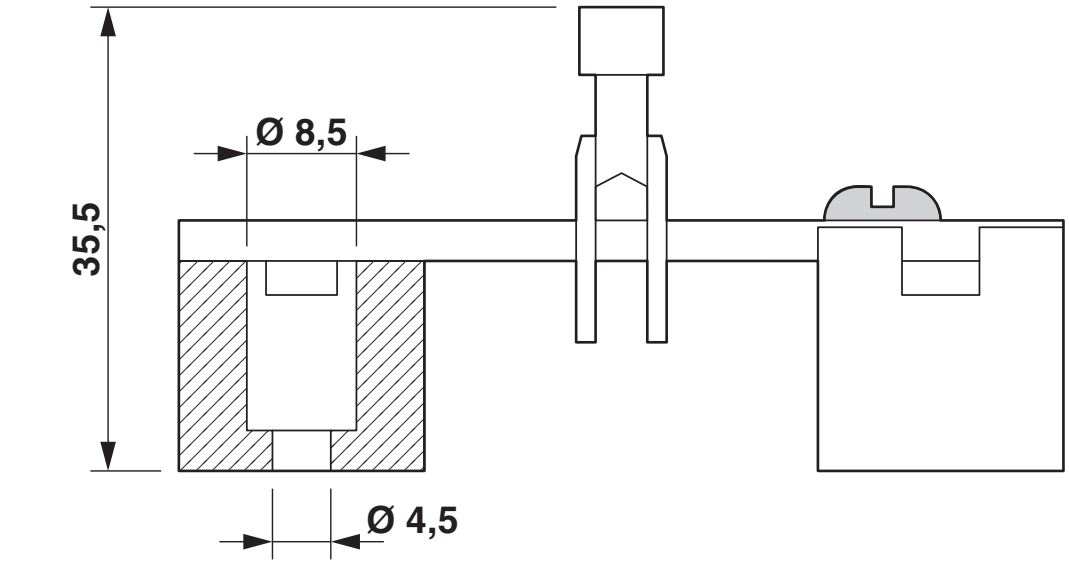
Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

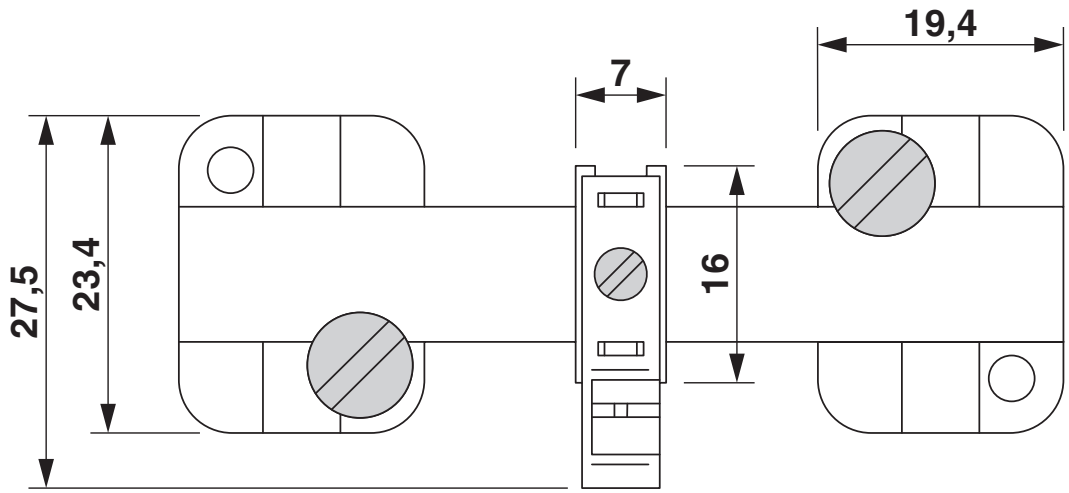
Mounting

Mounting type	Neutral busbar

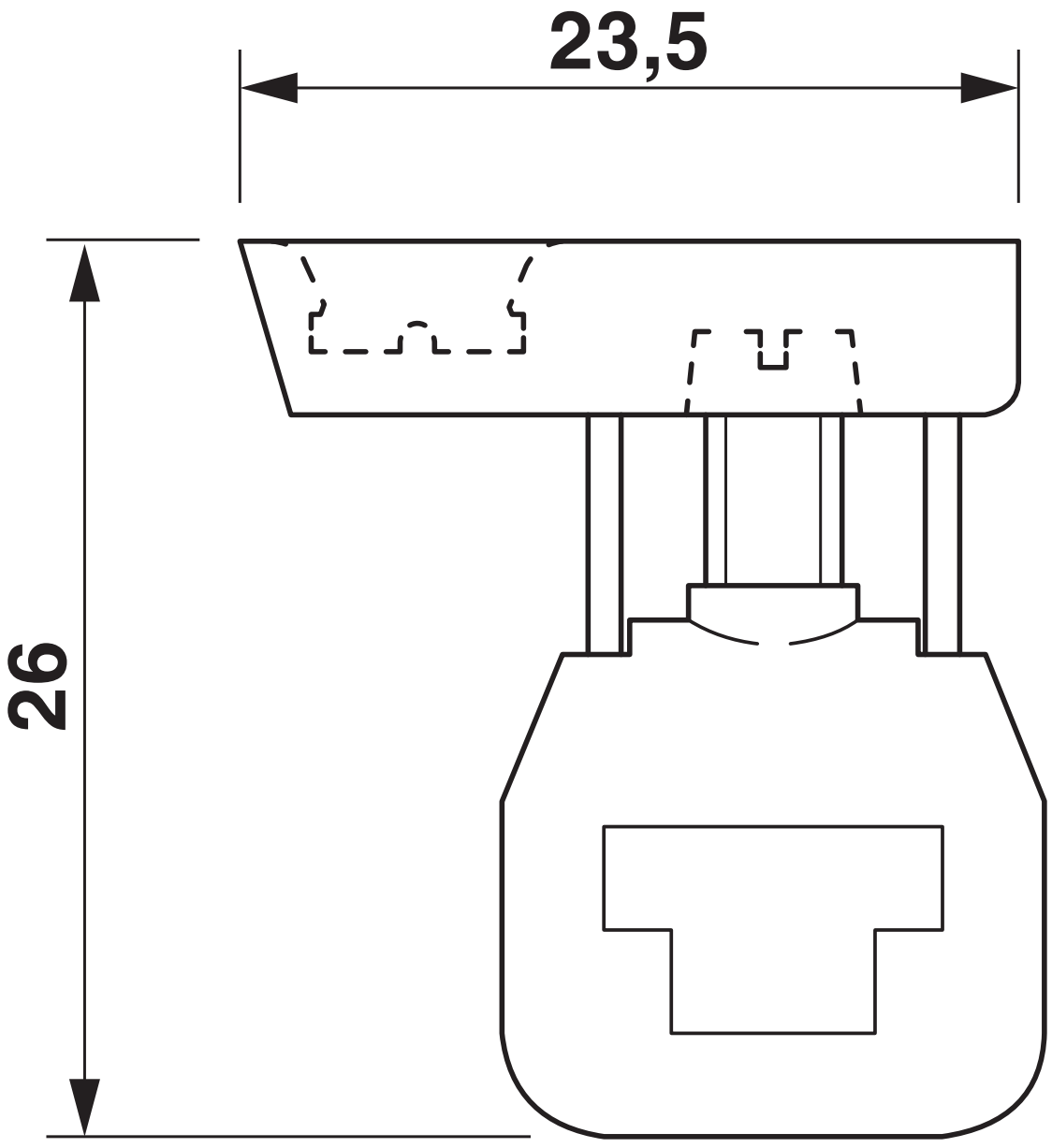
Drawings

Dimensional drawing





Dimensional drawing



Circuit diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/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: KZ 7500525010101950

IECEx
Approval ID: IECExKIWA14.0005U

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

cULus Recognized

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000001

UNSPSC

UNSPSC 21.0	31162900

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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