

# AKG 4 BU - Connection terminal block



0421016

<https://www.phoenixcontact.com/us/products/0421016>

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Connection terminal block, nom. voltage: 300 V, nominal current: 41 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: blue

## Commercial data

Item number	0421016
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE73
Product key	BE7331
GTIN	4017918001919
Weight per piece (including packing)	5.5 g
Weight per piece (excluding packing)	5.4 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
Current carrying capacity of the neutral busbar	140 A

### Connection data

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

#### Level 1 above 1 below 1

Connection method	Screw connection
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, rigid	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 cross section	4 mm <sup>2</sup>
Nominal current	41 A
Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross-section)
Nominal voltage	300 V

### Dimensions

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Dimensional drawing	
Width	7 mm
Height	23.4 mm
Depth	23.6 mm
Length	23.4 mm

## Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V2
Insulating material	PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

## Electrical tests

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq$ 45 K
Result	Test passed
Short-time withstand current 4 mm <sup>2</sup>	0.48 kA
Result	Test passed

## Mechanical tests

### Mechanical strength

Result	Test passed
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### Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.5 mm <sup>2</sup> / 0.3 kg
	4 mm <sup>2</sup> / 0.9 kg
	6 mm <sup>2</sup> / 1.4 kg
Result	Test passed

## Environmental and real-life conditions

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## 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 %

## Mounting

Mounting type	Neutral busbar
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## Drawings

Dimensional drawing



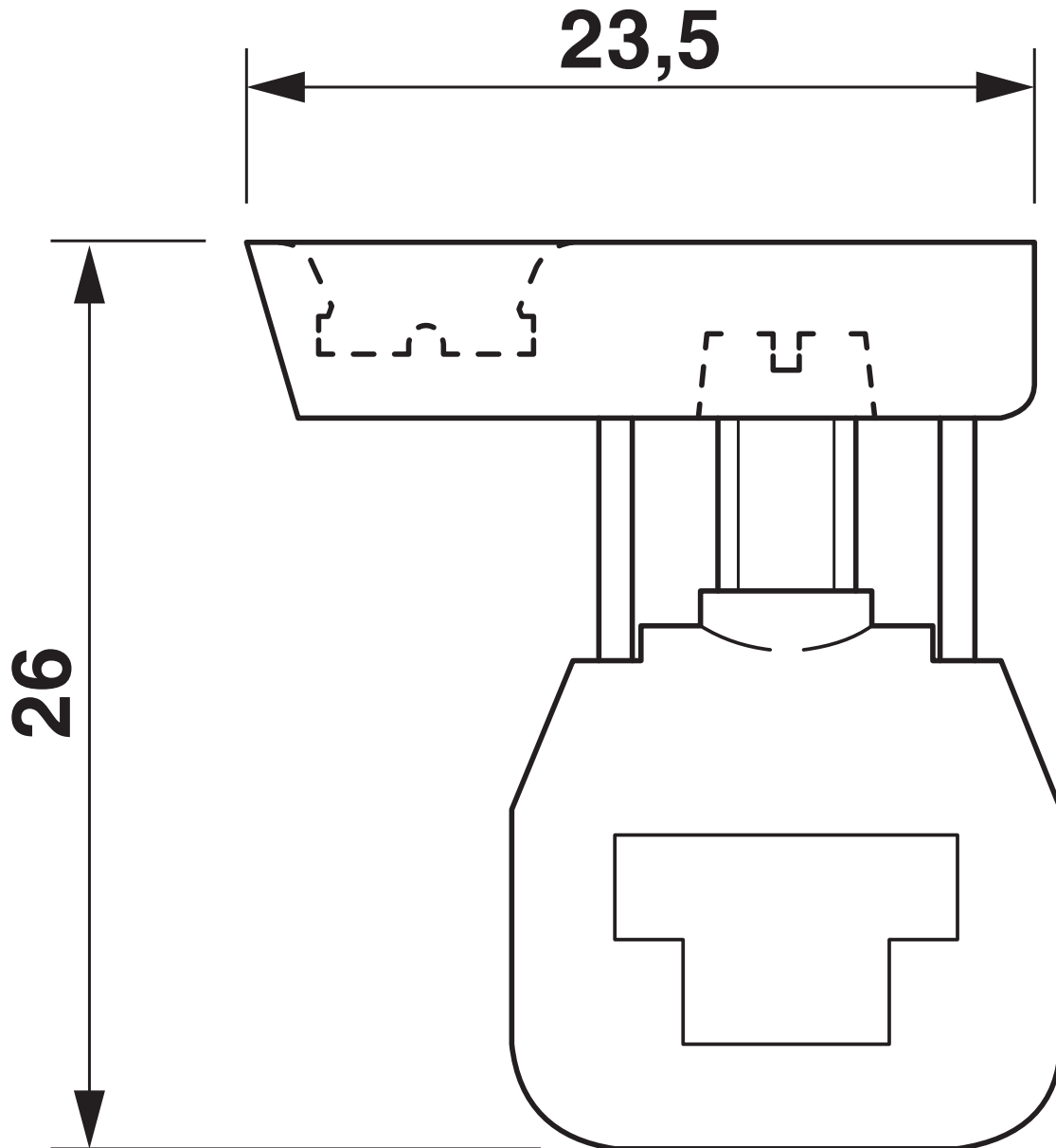
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Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0421016>

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	-	20 A	22 - 12	-

 <b>EAC</b> Approval ID: KZ7500651131219505				
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 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
<b>B</b>				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-
<b>C</b>				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-
<b>F</b>				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-

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## Classifications

### ECLASS

ECLASS-13.0	27250116
ECLASS-15.0	27250116

### ETIM

ETIM 10.0	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
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### 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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