

AKG 4 BU - Connection terminal block



0421016

<https://www.phoenixcontact.com/it/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 mm², cross section: 0.5 mm² - 6 mm², mounting: Neutral busbar, color: blue

Commercial data

Item number	0421016
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE7
Product key	BE7331
Catalog page	Page 554 (C-3-2019)
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 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	41 A
Maximum load current	41 A (with 6 mm ² conductor cross section)
Nominal voltage	300 V
Nominal cross section	4 mm ²

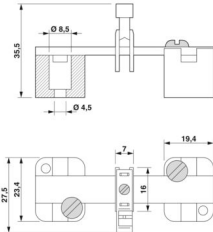
Dimensions

AKG 4 BU - Connection terminal block



0421016

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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 ≤ 45 K
Result		Test passed
Short-time withstand current 4 mm²		0.48 kA
Result		Test passed

Mechanical tests

Mechanical strength		
Result		Test passed
Test for conductor damage and slackening		
Rotation speed		10 rpm
Revolutions		135
Conductor cross section/weight		0.5 mm² / 0.3 kg
		4 mm² / 0.9 kg
		6 mm² / 1.4 kg
Result		Test passed

Environmental and real-life conditions

AKG 4 BU - Connection terminal block



0421016

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

Ambient conditions

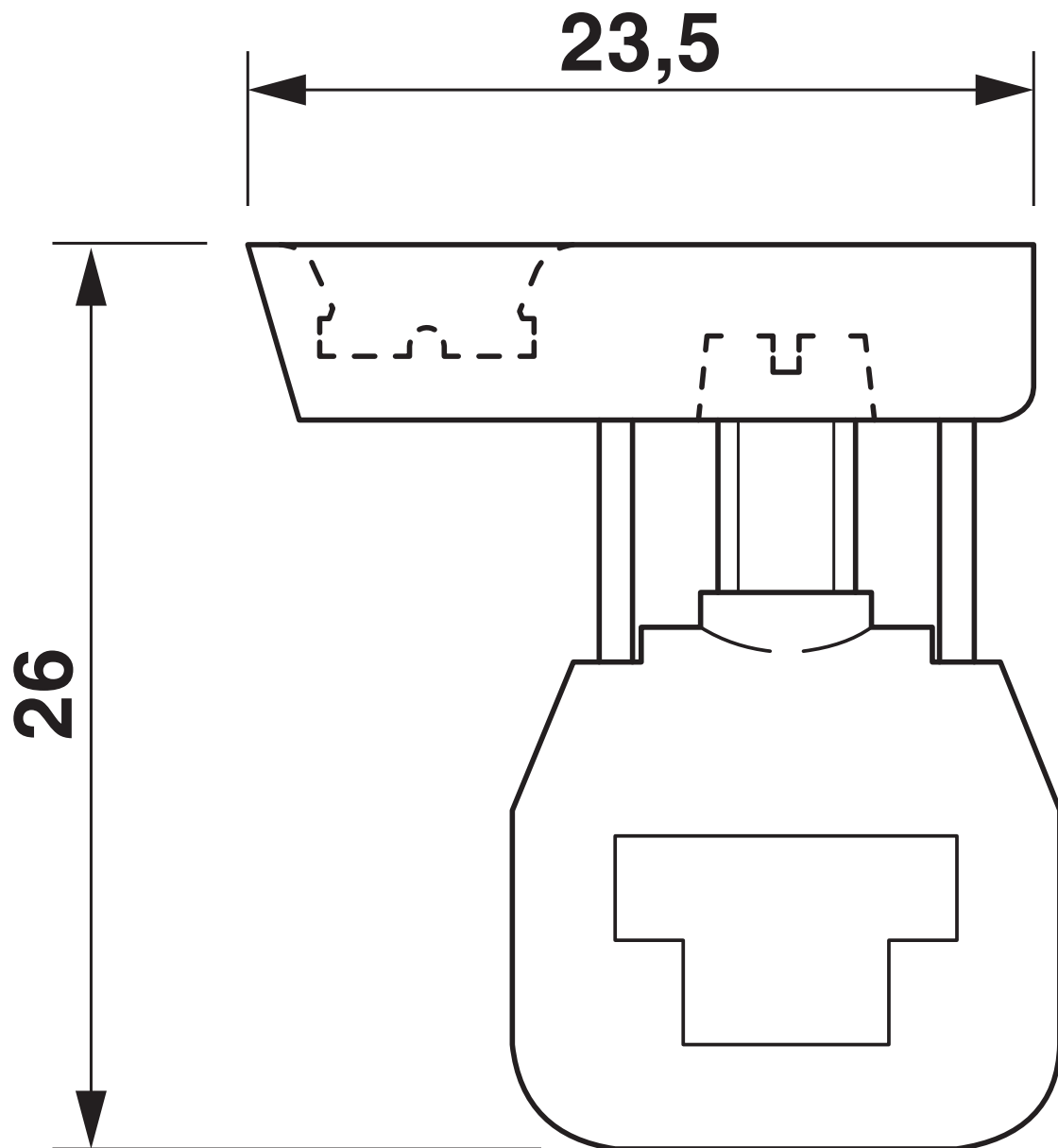
Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Mounting

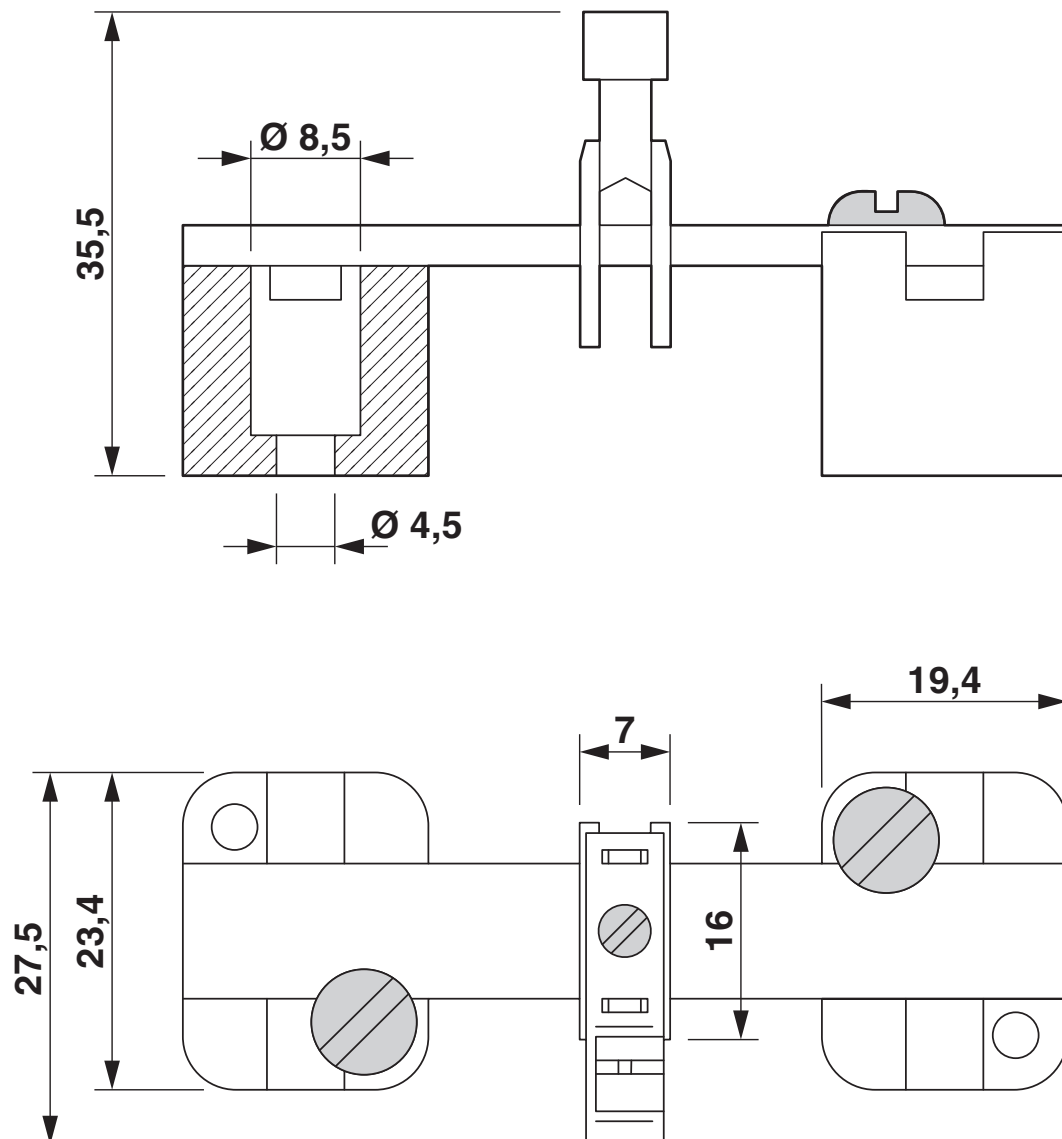
Mounting type	Neutral busbar
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Drawings

Dimensional drawing



Dimensional drawing



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0421016

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Circuit diagram



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Approvals

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

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	20 A	22 - 12	-

 EAC Approval ID: EACKZ 08593				
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 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-
Use group C				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-
Use group F				
Field wiring	-	20 A	22 - 12	-
Factory wiring	-	30 A	- 10	-

AKG 4 BU - Connection terminal block



0421016

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

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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AKG 4 BU - Connection terminal block



0421016
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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%

AKG 4 BU - Connection terminal block



0421016

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Accessories



Note: Applying some accessories below might limit this product.

NLS-CU 3/10 SN 1000MM - Neutral busbar

0402174

<https://www.phoenixcontact.com/it/products/0402174>



Neutral busbar, DIN VDE 0611-4: 1991-02, color: silver



Max. current carrying capacity: 140 A

ZB 5 :UNBEDRUCKT - Zack marker strip

1050004

<https://www.phoenixcontact.com/it/products/1050004>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.1 mm

AKG 4 BU - Connection terminal block

0421016

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ZB 5 CUS - Zack marker strip

0824962

<https://www.phoenixcontact.com/it/products/0824962>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,LGS:FORTL.ZAHLEN - Zack marker strip

1050017

<https://www.phoenixcontact.com/it/products/1050017>



Zack marker strip, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

AKG 4 BU - Connection terminal block



0421016

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ZB 5,QR:FORTL.ZAHLEN - Zack marker strip

1050020

<https://www.phoenixcontact.com/it/products/1050020>



Zack marker strip, white, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 5.2 mm, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,LGS:GLEICHE ZAHLEN - Zack marker strip

1050033

<https://www.phoenixcontact.com/it/products/1050033>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

AKG 4 BU - Connection terminal block



0421016

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ZB 5,LGS:L1-N,PE - Zack marker strip

1050415

<https://www.phoenixcontact.com/it/products/1050415>



Zack marker strip, Strip, white, labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

UC-TM 5 - Marker for terminal blocks

0818108

<https://www.phoenixcontact.com/it/products/0818108>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 96, text field height: 10.5 mm, text field width: 4.6 mm

AKG 4 BU - Connection terminal block

0421016

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UC-TM 5 CUS - Marker for terminal blocks

0824581

<https://www.phoenixcontact.com/it/products/0824581>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, Number of individual labels: 96, text field height: 4.6 mm, text field width: 10.5 mm

UCT-TM 5 - Marker for terminal blocks

0828734

<https://www.phoenixcontact.com/it/products/0828734>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 72, text field height: 10.5 mm, text field width: 4.6 mm

AKG 4 BU - Connection terminal block

0421016

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UCT-TM 5 CUS - Marker for terminal blocks

0829595

<https://www.phoenixcontact.com/it/products/0829595>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, Number of individual labels: 72, text field height: 10.5 mm, text field width: 4.6 mm

GBS 5-25X12 - Group marker label for terminal marking

0810588

<https://www.phoenixcontact.com/it/products/0810588>



Group marker label, snaps onto terminal center for screw, spring-cage and quick connection terminal blocks, labeled with a 25 x 12 mm label or manually with the B-STIFT, in the foot part with ZB 5

AKG 4 BU - Connection terminal block



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GBS 5-25X5 - Group marker label for terminal marking

0829126

<https://www.phoenixcontact.com/it/products/0829126>



Group marking label, can be snapped into terminal center for screw, spring-cage, push-in, and fast connection terminal blocks, can be labeled with a 24 x 4 mm label or manually using B-STIFT, in the foot part with ZB 5

STP 5-2-ZB - Marker carriers

3037643

<https://www.phoenixcontact.com/it/products/3037643>



Marker carriers, snaps into ST 2,5 spring-cage terminal blocks, can be marked with UC-TM 5, UC-TMF 5, UCT-TM 5, UCT-TMF 5, ZB 5, or ZBF 5, gray, unlabeled, mounting type: latching, text field height: 10.5 mm, text field width: 5 mm

AKG 4 BU - Connection terminal block

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SF-SL 0,8X4,0-100 S-VDE - Screwdriver

1212588

<https://www.phoenixcontact.com/lt/products/1212588>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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Phoenix Contact UAB

Svitrigailos str. 11B

03228 Vilnius

+370 5 2106321

balticinfo@phoenixcontact.com