

AKG 35 BU - Connection terminal block



0424013

<https://www.phoenixcontact.com/us/products/0424013>

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Connection terminal block, nom. voltage: 300 V, nominal current: 125 A, connection method: Screw connection, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting: Neutral busbar, color: blue

Commercial data

Item number	0424013
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE73
Product key	BE7331
GTIN	4017918002046
Weight per piece (including packing)	19.952 g
Weight per piece (excluding packing)	19.88 g
Customs tariff number	85369010
Country of origin	PL

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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	125 A (with 35 mm ² conductor cross-section)
Maximum power dissipation for nominal condition	4.06 W
Nominal current I _N	125 A
Current carrying capacity of the neutral busbar	140 A

Connection data

Nominal cross section	35 mm ²
Maximum load current	125 A (with 35 mm ² conductor cross-section)

Level 1 above 1 below 1

Connection method	Screw connection
Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Connection in acc. with standard	IEC / EN
Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Cross section AWG	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible	2.5 mm ² ... 35 mm ²
Conductor cross-section, flexible [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 35 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm ² ... 35 mm ²
2 conductors with same cross section, solid	1.5 mm ² ... 16 mm ²
2 conductors with same cross section, flexible	1.5 mm ² ... 16 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm ² ... 16 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm ² ... 10 mm ²
Nominal current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross-section)
Nominal voltage	300 V
Nominal cross section	35 mm ²

Dimensions

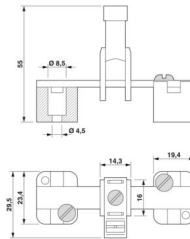
AKG 35 BU - Connection terminal block



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Dimensional drawing



Width	14.3 mm
Height	27.3 mm
Depth	40 mm
Length	27.3 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

Electrical tests

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 25 mm ²	3 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	2.5 mm ² / 0.7 kg
	25 mm ² / 4.5 kg
	35 mm ² / 6.8 kg
Result	Test passed

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
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AKG 35 BU - Connection terminal block



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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 %

Standards and regulations

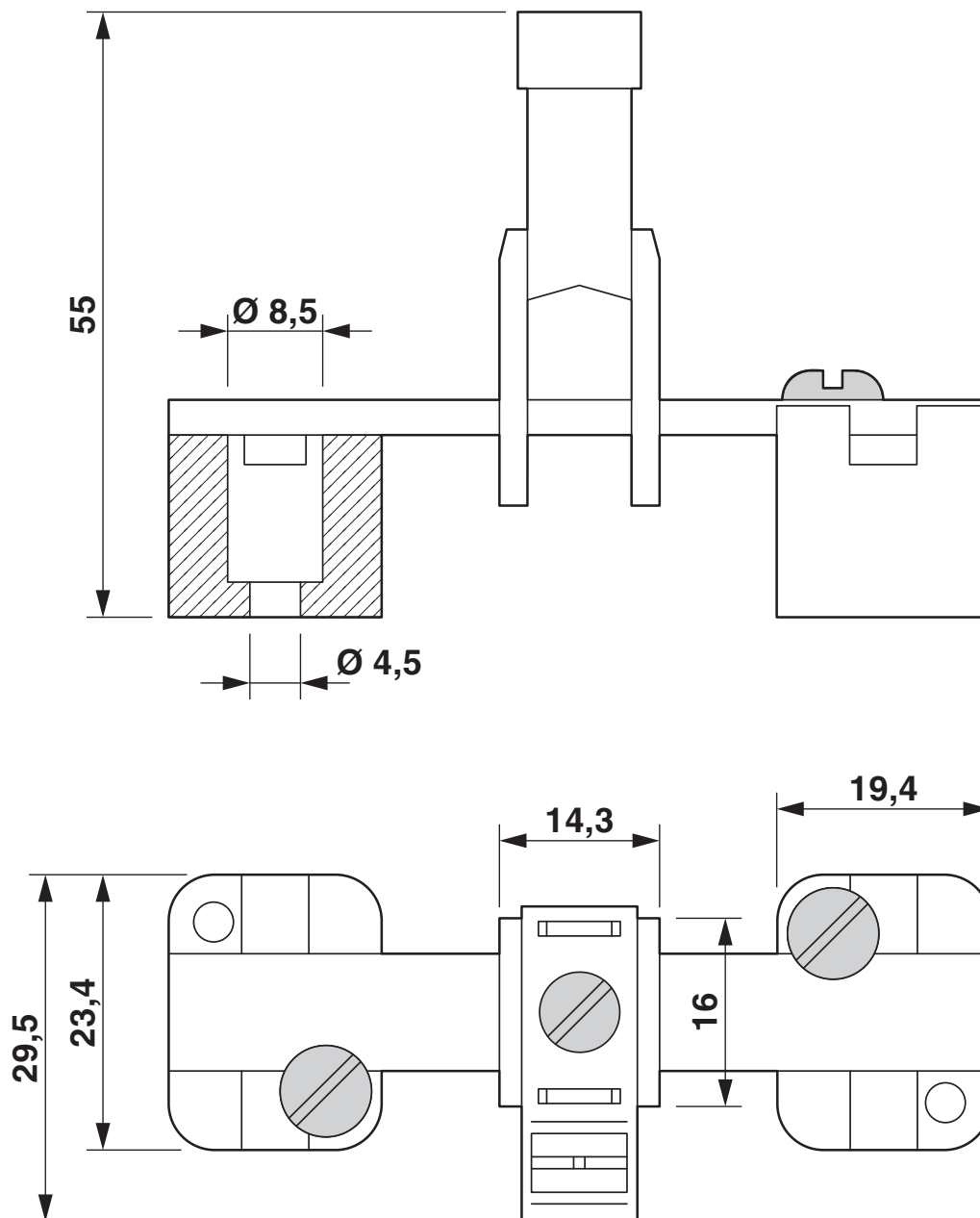
Connection in acc. with standard	IEC / EN
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Mounting

Mounting type	Neutral busbar
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Drawings

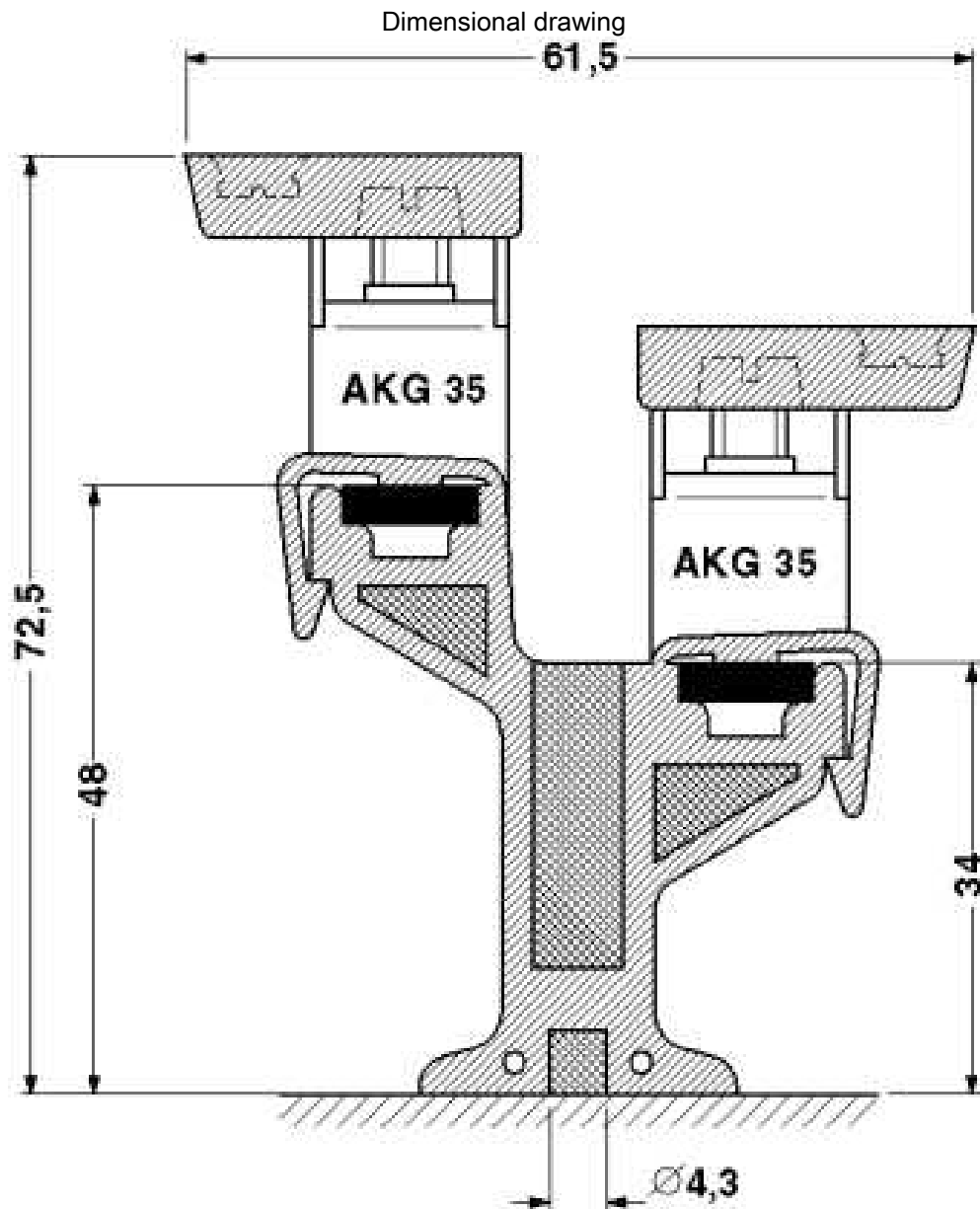
Dimensional drawing



AKG 35 BU - Connection terminal block

0424013

<https://www.phoenixcontact.com/us/products/0424013>



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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0424013>

 CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	-	135 A	18 - 2	-

 UL Recognized Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
B				
	-	115 A	18 - 2	-
C				
	-	115 A	18 - 2	-
F				
	-	115 A	18 - 2	-

 EAC Approval ID: KZ7500651131219505				
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Classifications

ECLASS

ECLASS-13.0	27250116
ECLASS-15.0	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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