AKG 35 BU - Connection terminal block

0424013

https://www.phoenixcontact.com/sg/products/0424013

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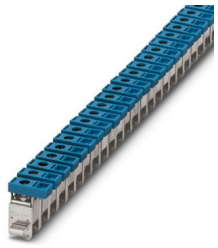


Connection terminal block, nom. voltage: 300 V, nominal current: 125 A, connection method: Screw connection, Rated cross section: 35 mm^2, cross section: 2.5 mm^2 - 35 mm^2, mounting: Neutral busbar, color: blue

Commercial data

Item number	0424013
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	0151*
Product key	BE7331
Catalog page	Page 555 (C-3-2019)
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

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 mm² 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

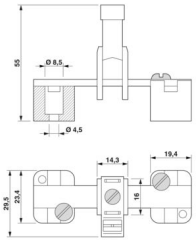
Connection data

Nominal cross section	35 mm²
Maximum load current	125 A (with 35 mm² conductor cross section)

Level 1 above 1 below 1

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 mm² ... 35 mm²
Cross section AWG	12 ... 2 (converted acc. to IEC)
Conductor cross section flexible	2.5 mm² ... 35 mm²
Conductor cross section, flexible [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm² ... 35 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm² ... 35 mm²
2 conductors with same cross section, solid	1.5 mm² ... 16 mm²
2 conductors with same cross section, flexible	1.5 mm² ... 16 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm² ... 16 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² ... 10 mm²
Nominal current	125 A
Maximum load current	125 A (with 35 mm² conductor cross section)
Nominal voltage	300 V
Nominal cross section	35 mm²

Dimensions

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 mm²	3 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	2.5 mm² / 0.7 kg
	25 mm² / 4.5 kg
	35 mm² / 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.)

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

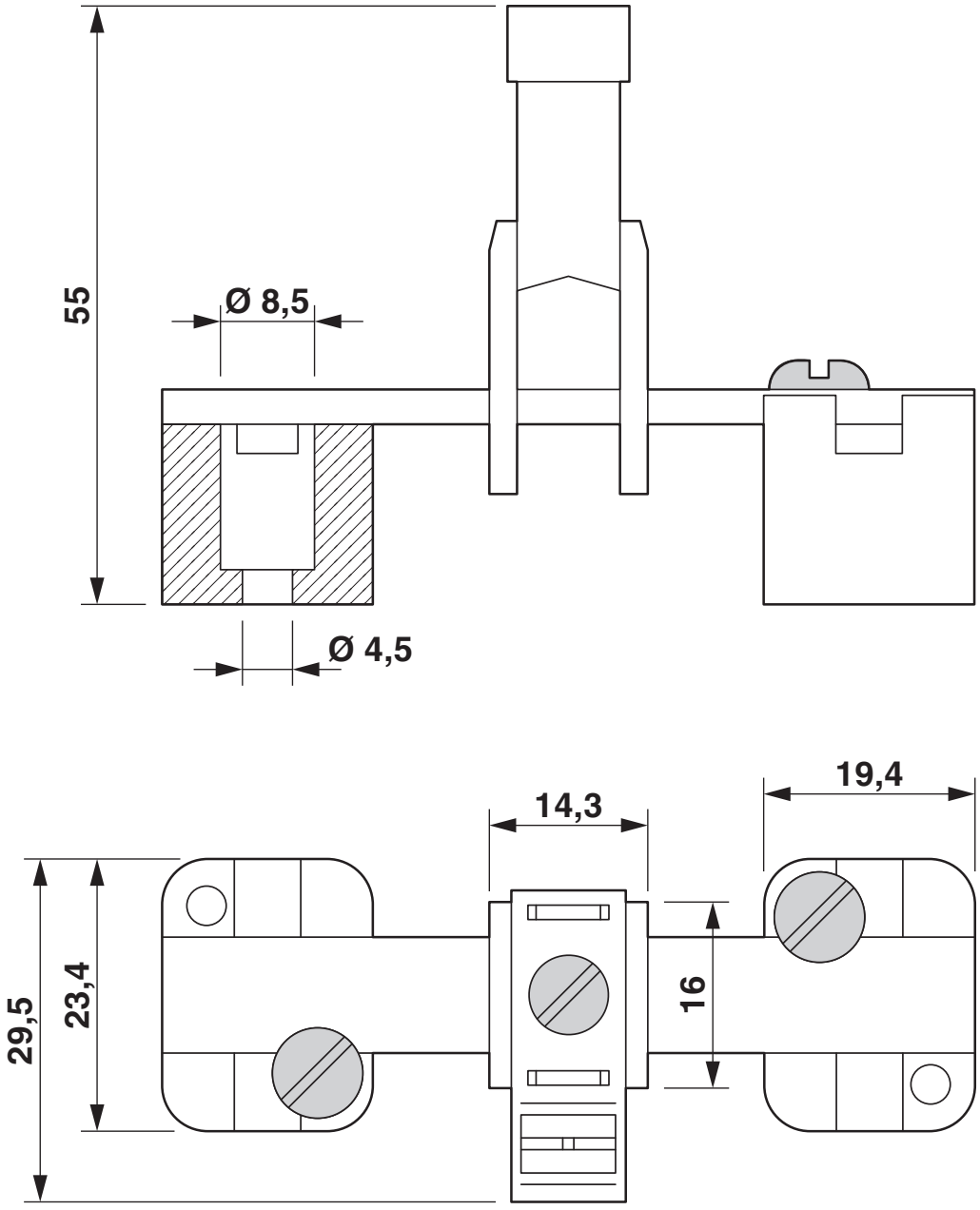
Mounting

Mounting type	Neutral busbar

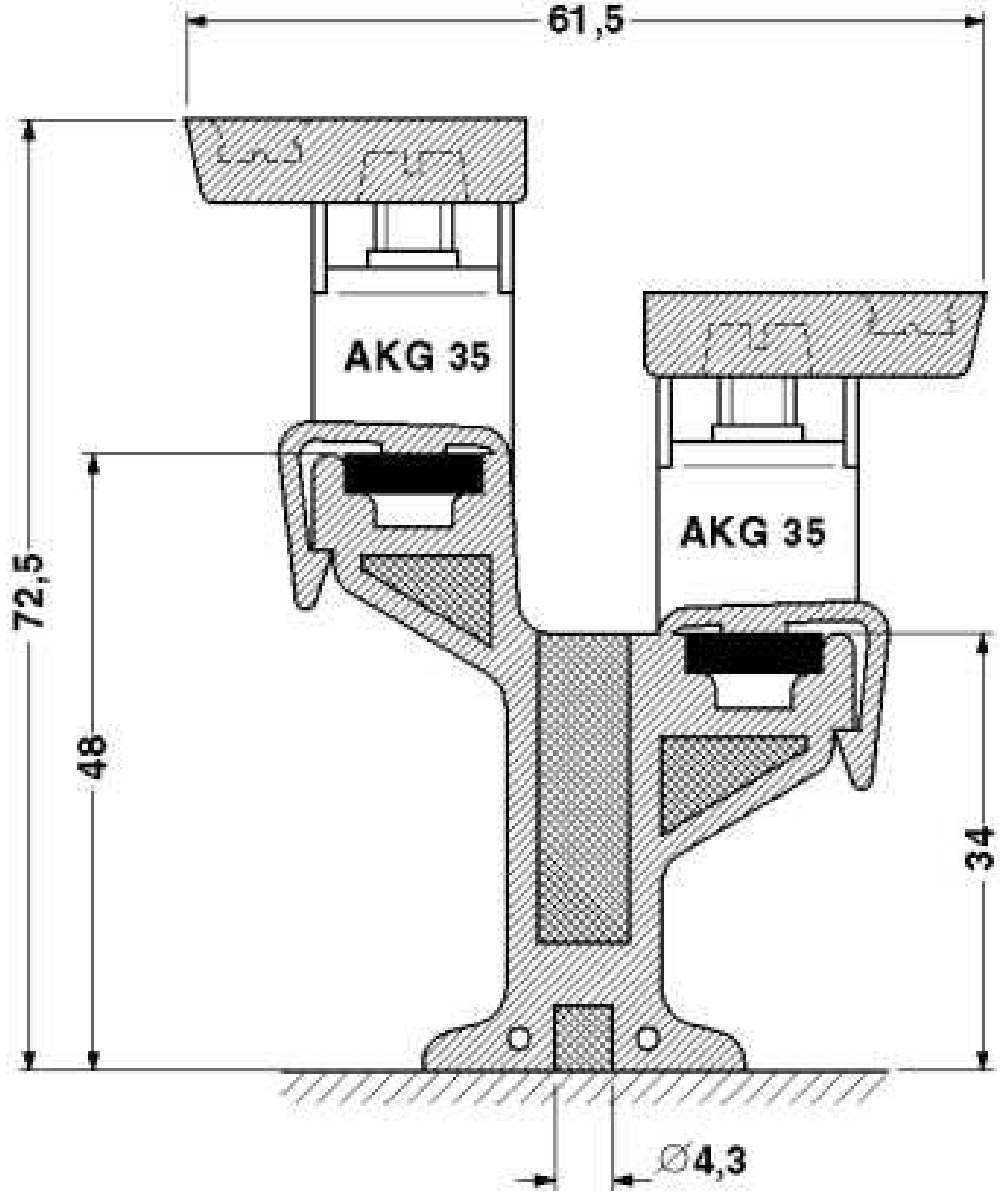
Drawings

Circuit diagram

Dimensional drawing



Dimensional drawing



Approvals

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

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	135 A	18 - 2	-

UL Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	-	115 A	18 - 2	-
Use group C				
	-	115 A	18 - 2	-
Use group F				
	-	115 A	18 - 2	-

EAC
Approval ID: EACKZ 08593

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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