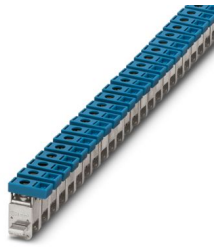
AKG 35 BU - Connection terminal block

0424013

https://www.phoenixcontact.com/pc/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	1 pc
Product key	BE7331
GTIN	4017918002046
Weight per piece (including packing)	19.98 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

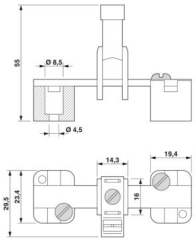
Connection data

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

Level 1 above 1 below 1

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 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, rigid	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 cross section	35 mm²
Nominal current	125 A
Maximum load current	125 A (with 35 mm² conductor cross-section)
Nominal voltage	300 V

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

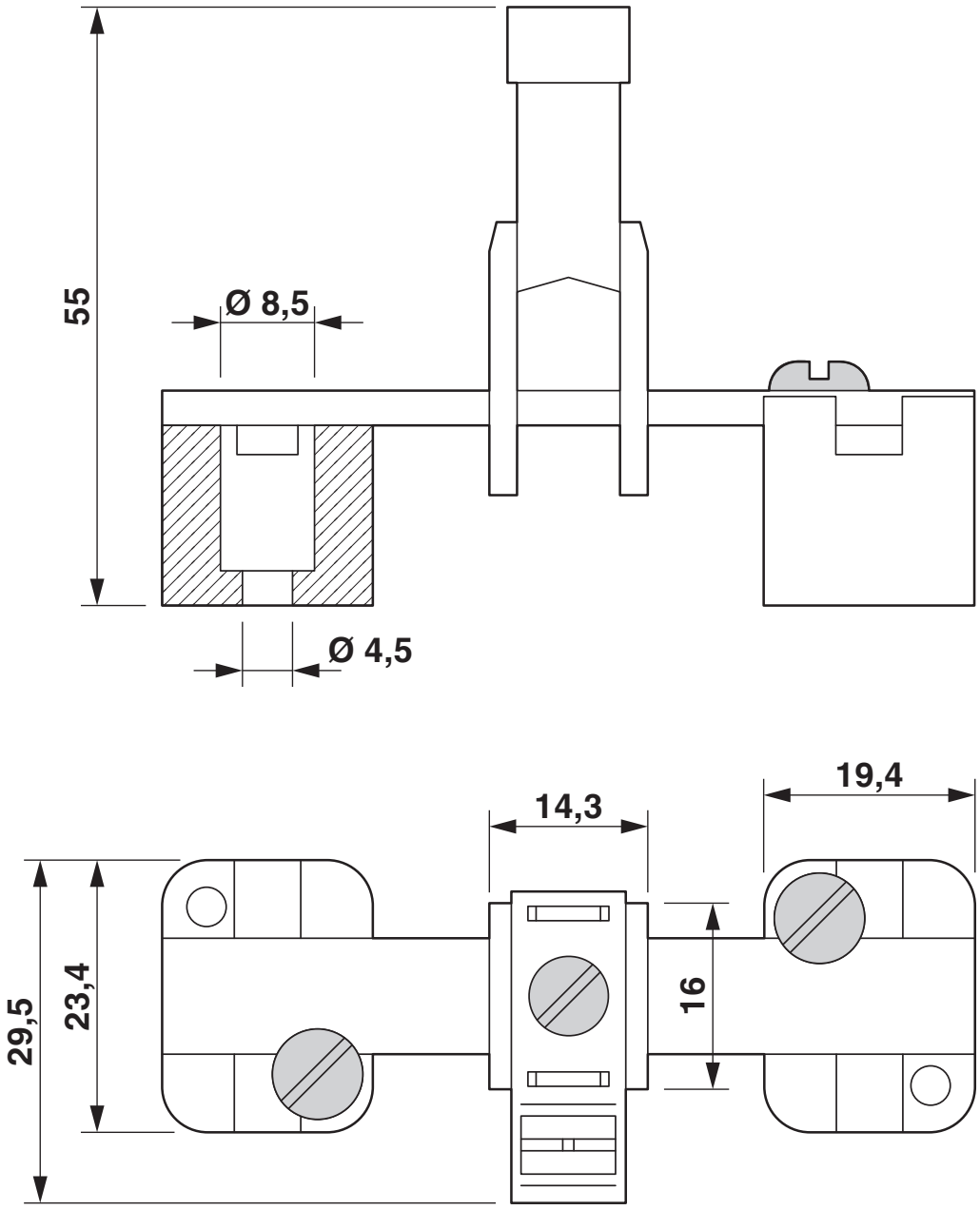
Connection in acc. with standard	IEC / EN

Mounting

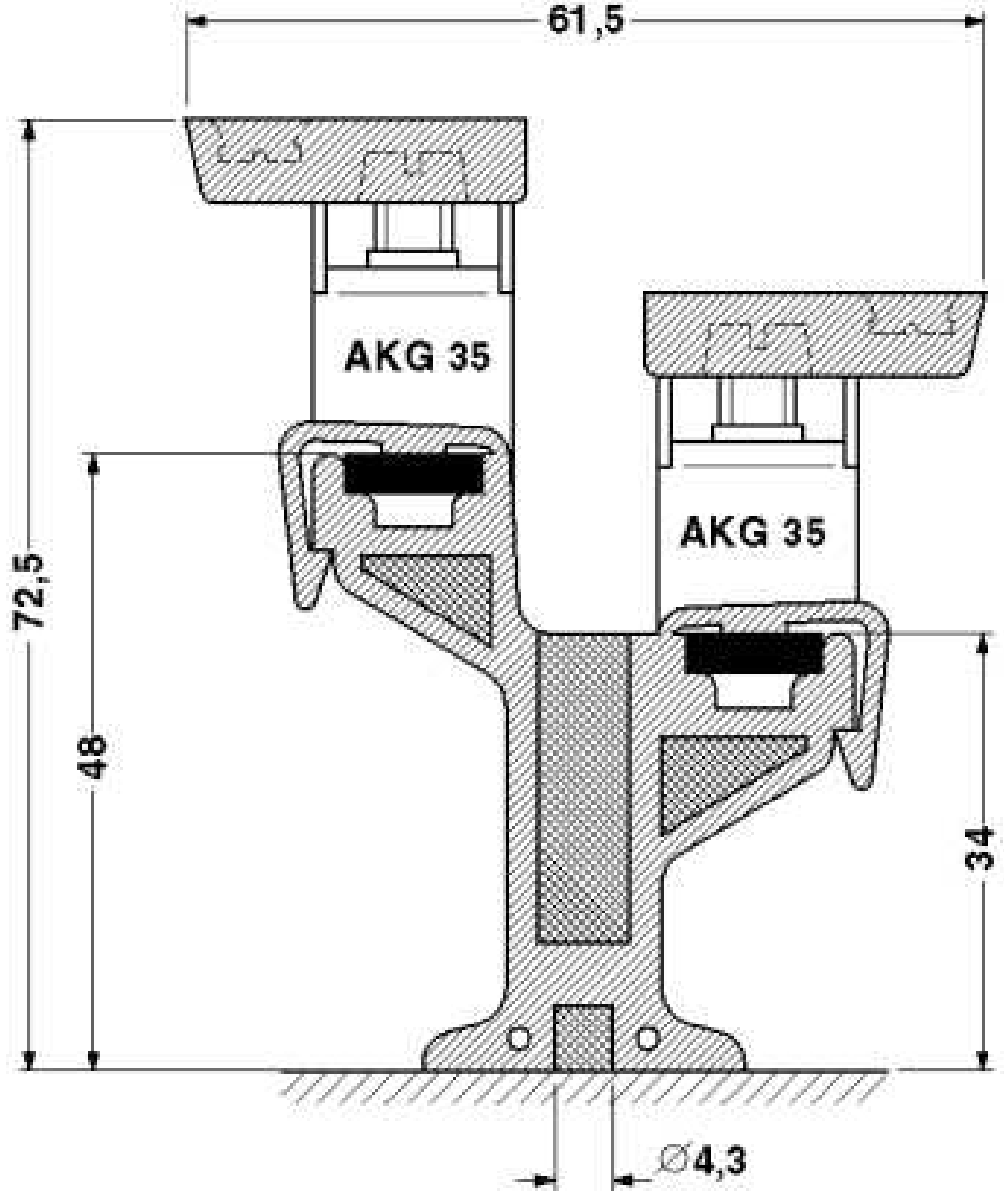
Mounting type	Neutral busbar

Drawings

Dimensional drawing



Dimensional drawing



Approvals

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

Classifications

ECLASS

ECLASS-13.0	27250116
ECLASS-15.0	27250116

ETIM

ETIM 10.0	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%

EF3.1 Climate Change

CO2e kg	0.097 kg CO2e

Accessories

Note: Applying some accessories below might limit this product.

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

0402174

https://www.phoenixcontact.com/pc/products/0402174



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

Max. current carrying capacity: 140 A

ZB 6:UNBEDRUCKT - Zack marker strip

1051003

https://www.phoenixcontact.com/pc/products/1051003



Zack marker strip, Strip, white (RAL 9010), unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6 CUS - Zack marker strip

0824992

https://www.phoenixcontact.com/pc/products/0824992



Zack marker strip, can be ordered: Strip, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

https://www.phoenixcontact.com/pc/products/1051016



Zack marker strip, Strip, white (RAL 9010), labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,QR:FORTL.ZAHLEN - Zack marker strip

1051029

https://www.phoenixcontact.com/pc/products/1051029



Zack marker strip, Strip, white (RAL 9010), labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

1051032

https://www.phoenixcontact.com/pc/products/1051032



Zack marker strip, Strip, white (RAL 9010), 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: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:L1-N,PE - Marker for terminal blocks

1051414

https://www.phoenixcontact.com/pc/products/1051414



Marker for terminal blocks, Strip, white (RAL 9010), labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:U-N - Marker for terminal blocks

1051430

https://www.phoenixcontact.com/pc/products/1051430



Marker for terminal blocks, Strip, white (RAL 9010), labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

UC-TM 6 - Marker for terminal blocks

0818085

https://www.phoenixcontact.com/pc/products/0818085



Marker for terminal blocks, Card, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 80, text field height: 10.3 mm, text field width: 5.6 mm

UC-TM 6 CUS - Marker for terminal blocks

0824589

https://www.phoenixcontact.com/pc/products/0824589



Marker for terminal blocks, can be ordered: by sheet, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 80, text field height: 10.5 mm, text field width: 5.6 mm

UCT-TM 6 - Marker for terminal blocks

0828736

https://www.phoenixcontact.com/pc/products/0828736



Marker for terminal blocks, Card, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 60, text field height: 9.9 mm, text field width: 5.2 mm

UCT-TM 6 CUS - Marker for terminal blocks

0829602

https://www.phoenixcontact.com/pc/products/0829602



Marker for terminal blocks, Card, can be ordered: by sheet, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 60, text field height: 10.5 mm, text field width: 5.6 mm

SZS 1,0X4,0 VDE - Screwdriver

1205066

https://www.phoenixcontact.com/pc/products/1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

SZS 1,0X6,5 VDE - Screwdriver

1205079

https://www.phoenixcontact.com/pc/products/1205079



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

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