PHŒNIX CONTACT

Connection terminal block - AKG 35 BU - 0424013

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Connection terminal block, Connection method Screw connection, Load current : 125 A, Cross section: 2.5 mm² - 35 mm², Width: 14.3 mm, Color: blue

Key commercial data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 017918 002046
Weight per Piece (excluding packing)	19.88 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Color	blue
Insulating material	PA
Inflammability class according to UL 94	V2
Maximum load current	125 A (with 35 mm² conductor cross section)
Connection in acc. with standard	IEC / EN
Nominal current I_N	125 A
Nominal voltage U_N	300 V
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	2.5 mm² / 0.7 kg
	25 mm² / 4.5 kg
	35 mm² / 6.8 kg
Result of bending test	Test passed
Conductor cross section tensile test	2.5 mm²

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Technical data

General

Tractive force setpoint	50 N
Conductor cross section tensile test	25 mm²
Tractive force setpoint	135 N
Conductor cross section tensile test	35 mm²
Tractive force setpoint	190 N
Tensile test result	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	25 mm²
Short-time current	3 kA
Short circuit stability result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	125 °C

Dimensions

Length	27 mm
Width	14.3 mm

Connection data

Conductor cross section solid min.	2.5 mm²
Conductor cross section solid max.	35 mm²
Conductor cross section stranded min.	2.5 mm²
Conductor cross section stranded max.	35 mm²
Conductor cross section AWG/kcmil min.	14
Conductor cross section AWG/kcmil max	2
Conductor cross section stranded, with ferrule without plastic sleeve min.	2.5 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	35 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	2.5 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	35 mm²
2 conductors with same cross section, solid min.	1.5 mm²
2 conductors with same cross section, solid max.	16 mm²
2 conductors with same cross section, stranded min.	1.5 mm²
2 conductors with same cross section, stranded max.	16 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	16 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	1.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	10 mm²

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Technical data

Connection data

Connection method	Screw connection
Stripping length	16 mm
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 Nm

Classifications

eCl@ss

eCl@ss 4.0	27141131
eCl@ss 4.1	27141131
eCl@ss 5.0	27141131
eCl@ss 5.1	27141131
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141146

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000001

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

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Ex Approvals

Connection terminal block - AKG 35 BU - 0424013

Approvals

Approvals submitted

Approval details

CSA	
mm²/AWG/kcmil	18-2
Nominal current IN	135 A

UL Recognized	B	C
mm²/AWG/kcmil	18-2	18-2
Nominal current IN	115 A	115 A
Nominal voltage UN	250 V	300 V

cUL Recognized	B	C
mm²/AWG/kcmil	18-2	18-2
Nominal current IN	115 A	115 A
Nominal voltage UN	250 V	300 V

EAC

cULus Recognized

Accessories

Accessories

Labeled terminal marker

Connection terminal block - AKG 35 BU - 0424013

Accessories

Zack marker strip - ZB 6 CUS - 0824992

Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Identical numbers 1 or 2, etc. up to 100, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414

Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Accessories

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430

Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: U, V, W, N, GND, U, V, W, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Marker for terminal blocks - UC-TM 6 CUS - 0824589

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: 6.2 mm, Lettering field: 5.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 6 CUS - 0829602

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: 6.2 mm, Lettering field: 5.6 x 10.5 mm

Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174

PEN conductor busbar, 3mm x 10 mm, length: 1000 mm

Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066

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

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Accessories

Screwdriver - SZS 1,0X6,5 VDE - 1205079

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

Support

Support bracket - ABN 2/SS - 0404460

Double support bracket, insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm busbar, height in closed state: 39 mm

Support bracket - UAB 1 - 3032431

Support bracket, Width: 2 mm, Color: gray

Support bracket - AB/SS - 0404428

Support bracket made from insulation material, with retaining screw, can be used with either 3 x 10 mm or 6 x 6 mm busbar, color: gray

Support bracket - AB2/SS - 0404431

Double support bracket, insulating material, optionally for use with 3 mm x 10 mm or 6 mm x 6 mm busbar, height: 48 mm

Terminal marking

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Accessories

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Marker for terminal blocks - UC-TM 6 - 0818085

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 5.6 x 10.5 mm
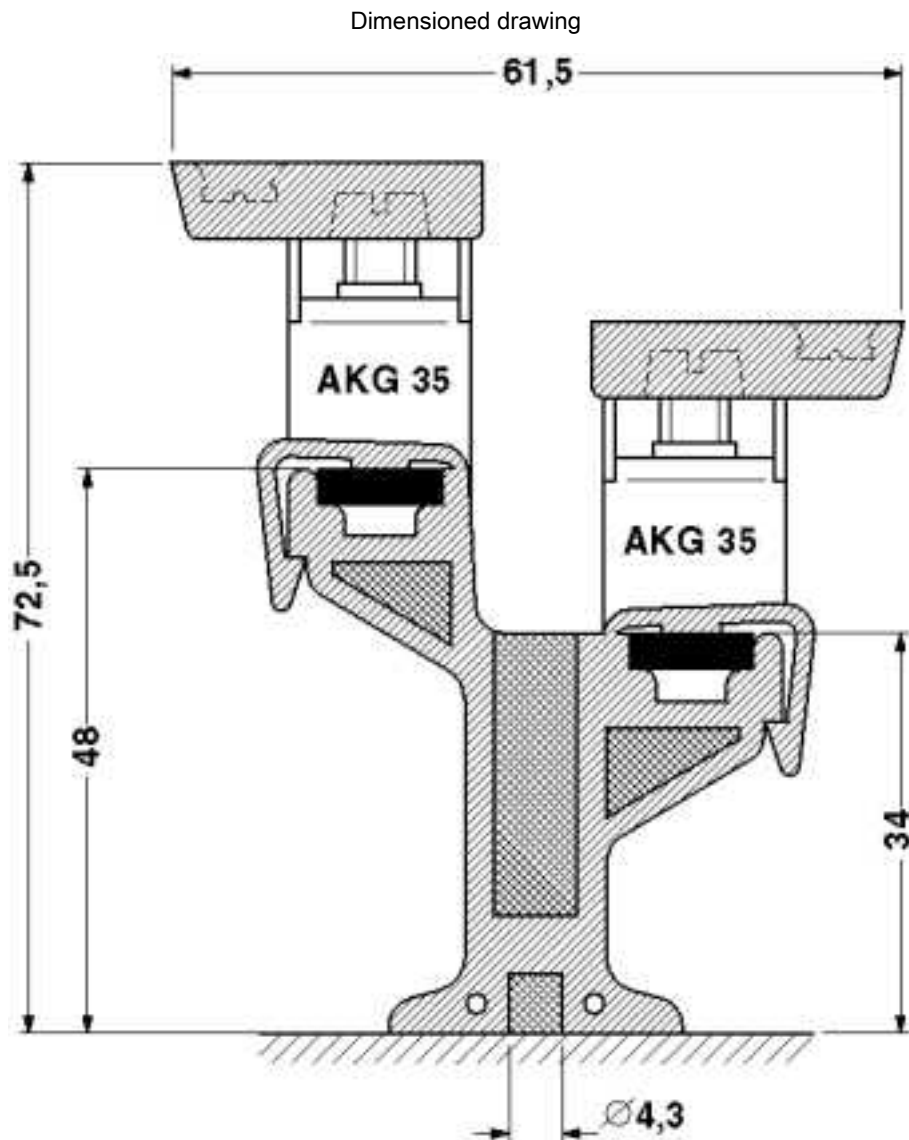
Marker for terminal blocks - UCT-TM 6 - 0828736

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 5.6 x 10.5 mm

Drawings

Connection terminal block - AKG 35 BU - 0424013

Dimensioned drawing

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Dimensioned drawing