

# AGK 4-UT 35 - Pick-off terminal block

3047138

<https://www.phoenixcontact.com/gb/products/3047138>

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Pick-off terminal block, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 1, connection method: Screw connection, cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: on base element, color: gray

## Your advantages

- Large-surface marking
- The fully insulated, optionally used pick-off terminal block enables voltage pick-off
- Pick-off terminal block, for snapping into the side insertion funnel

## Commercial data

Item number	3047138
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1ZWX
Product key	BE1ZWX
GTIN	4046356055901
Weight per piece (including packing)	6.298 g
Weight per piece (excluding packing)	6.298 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Notes

#### General

Note	The max. load current must not be exceeded by the total current of all connected conductors.
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### Product properties

Product type	Pick-off terminal
Product family	UT
Number of connections	1
Number of rows	1
Potentials	1

#### Insulation characteristics

Overvoltage category	III
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### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

### Connection data

Number of connections per level	1
Nominal cross section	4 mm <sup>2</sup>
Rated cross section AWG	10
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	26 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with same cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Nominal current	32 A (with 4 mm <sup>2</sup> conductor cross-section)

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Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross-section)
Nominal voltage	1000 V

## Ex data

### Rated data (ATEX/IECEX)

Identification	⊕ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1204517 SZF 1-0,6X3,5
Ex temperature increase	40 K (40 A / 4 mm <sup>2</sup> )
Rated insulation voltage	630 V
output	(Permanent)

### Ex level General

Rated voltage	690 V
Rated current	32 A
Maximum load current	41 A
Contact resistance	0.43 mΩ

### Ex connection data General

Torque range	0.6 Nm ... 0.8 Nm
Nominal cross section	4 mm <sup>2</sup>
Rated cross section AWG	12
Connection capacity rigid	0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection capacity AWG	26 ... 10
Connection capacity flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	26 ... 12
2 conductors with same cross section, solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	26 ... 16
2 conductors with same cross section, stranded	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	26 ... 16

## Dimensions

Width	8.1 mm
Height	42.4 mm
Depth	25.7 mm
Depth on NS 35/7,5	65.7 mm
Depth on NS 35/15	73.2 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

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Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 4 mm <sup>2</sup>	0.48 kA
Short-time withstand current 6 mm <sup>2</sup>	0.72 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	No
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.14 mm <sup>2</sup> / 0.2 kg
	4 mm <sup>2</sup> / 0.9 kg
	6 mm <sup>2</sup> / 1.4 kg
Result	Test passed

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## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### 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 60947-7-1
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## Mounting

Mounting type	on base element
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## Drawings

Circuit diagram



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## Approvals


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 **cULus Recognized**  
Approval ID: E60425


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Approval ID: E60425


 **ATEX**  
Approval ID: KEMA04ATEX2048U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only flexible conductors	690 V	32 A	-	0.14 - 4
Only rigid conductors	690 V	41 A	-	0.14 - 6

 **cUL Recognized**  
Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	600 V	30 A	26 - 10	26 - 10
C				
	600 V	30 A	26 - 10	26 - 10

 **EAC Ex**  
Approval ID: RU C-DE.Ax07.B.03227

 **IECEx**  
Approval ID: IECEx KEM 06.0027U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only flexible conductors	690 V	32 A	-	0.14 - 4
Only rigid conductors	690 V	41 A	-	0.14 - 6

 **UL Recognized**  
Approval ID: E192998

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	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	30 A	26 - 10	-
C	600 V	30 A	26 - 10	-



**CCC**

Approval ID: 2020322313000622



**UKCA-EX**

Approval ID: DEKRA 21UKEX0304U



**EAC Ex**

Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

ECLASS-13.0	27250308
ECLASS-15.0	27250308

### ETIM

ETIM 10.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	efd8b670-bf67-437f-81eb-a240886e8af5

### EF3.1 Climate Change

CO2e kg	0.021 kg CO2e
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