

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



3047138

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4 mm<sup>2</sup>



SCREW



32 A

IEC



1000 V

IEC



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                            | BE19          |
| 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. |
|------|----------------------------------------------------------------------------------------------|

### 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 |
|----------------------|-----|

### 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              | Ex 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 |
|-----------------|----|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### 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 |
|----------------------------------|---------------|

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

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

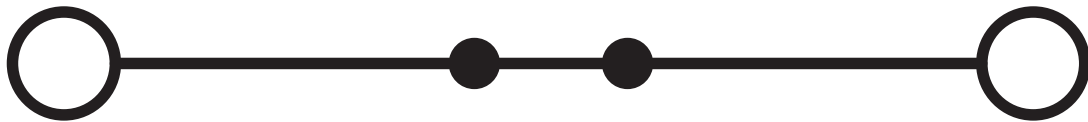


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3047138>

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | 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           | -                           |

|  <b>ATEX</b><br>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                    |

|                                                                                                                                        |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC Ex</b><br>Approval ID: RU C-DE.Ax07.B.03227 |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>IECEx</b><br>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                    |

|                                                                                                                                 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>CCC</b><br>Approval ID: 2020322313000622 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                      |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>UKCA-EX</b><br>Approval ID: DEKRA 21UKEX0304U |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                       |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250308 |
| ECLASS-15.0 | 27250308 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### 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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