

AGK 4-UT 16 - Pick-off terminal block

3047125

<https://www.phoenixcontact.com/us/products/3047125>

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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 mm² - 6 mm², mounting type: on base element, color: gray

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3047125 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE19 |
| Product key | BE1ZWX |
| GTIN | 4046356055895 |
| Weight per piece (including packing) | 6.013 g |
| Weight per piece (excluding packing) | 6.013 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 ² |
| 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 ² ... 6 mm ² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm ² ... 4 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| 2 conductors with same cross section, rigid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Nominal current | 32 A (with 4 mm ² conductor cross-section) |

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| | |
|----------------------|---|
| Maximum load current | 41 A (with 6 mm ² 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 (36 A/4 mm ²) |
| 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 ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.14 mm ² ... 6 mm ² |
| Connection capacity AWG | 26 ... 10 |
| Connection capacity flexible | 0.14 mm ² ... 4 mm ² |
| Connection capacity AWG | 26 ... 12 |
| 2 conductors with same cross section, solid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 26 ... 16 |
| 2 conductors with same cross section, stranded | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |

Dimensions

| | |
|--------------------|---------|
| Width | 8.1 mm |
| Height | 39.4 mm |
| Depth | 24.7 mm |
| Depth on NS 35/7,5 | 55.7 mm |
| Depth on NS 35/15 | 63.2 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 ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 4 mm ² | 0.48 kA |
| Short-time withstand current 6 mm ² | 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 | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|-------------------------------|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.14 mm ² / 0.2 kg |
| | 4 mm ² / 0.9 kg |
| | 6 mm ² / 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 |
|---------------|-----------------|

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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/3047125>

 **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 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 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 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 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 |
|-----------|----------|

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 | 20831053-1aab-4c20-9ead-1c25f2a1e600 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.021 kg CO2e |
|---------|---------------|

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