# AGK PT 4X6/M10 - Pick-off terminal block

1017448

https://www.phoenixcontact.com/us/products/1017448

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Terminal point designation, alphabetical

Pick-off terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 5, connection method: Push-in connection, Rated cross section: 6 mm$^2$, 1 level, cross section: 0.5 mm$^2$ - 10 mm$^2$, Bolt connection, Line contact, 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

## Commercial data

| | |
|---|---|
| Item number | 1017448 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE29 |
| Product key | BE2ZWX |
| GTIN | 4055626500638 |
| Weight per piece (including packing) | 41.13 g |
| Weight per piece (excluding packing) | 37.7 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

# Technical data

## Notes

General

| | |
|---|---|
| Note | For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed! |

## Product properties

| | |
|---|---|
| Product type | Pick-off terminal |
| Product family | PT |
| Number of connections | 5 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 1.31 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 5 |
| Nominal cross section | 6 mm² |
| Rated cross section AWG | 10 |

1 level

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm² ... 10 mm² |
| Cross section AWG | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 6 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 6 mm² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm² ... 1.5 mm² |
| Nominal cross section | 6 mm² |
| Nominal current | 41 A |
| Maximum load current | 57 A |
| Maximum total current | 109 A (Bolt connection) |
| Nominal voltage | 1000 V (when using HV M 10/2 or HV M 10/1 and appropriate |

| | |
|---|---|
| | divider plate) |

Line contact

| | |
|---|---|
| Connection method | Bolt connection |
| Screw thread | M10 |
| Note | Connection bolts |
| Tightening torque | 10 ... 20 Nm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section flexible | 6 mm² ... 120 mm² |
| Conductor cross-section, flexible [AWG] | 10 ... 250 kcmil (converted acc. to IEC) |

Cable lug connection

| | |
|---|---|
| Cross section range AWG | (converted acc. to IEC) |
| Hole diameter | 10.4 mm |
| Width | 32 mm |
| Bolt diameter | 10 mm |
| Screw thread | M10 |

## Dimensions

| | |
|---|---|
| Width | 31 mm |
| Height | 57.4 mm |
| Depth | 32.3 mm |
| Hole diameter | 10.4 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 |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| 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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| 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 6 mm² | 0.72 kA |
| Short-time withstand current 10 mm² | 1.2 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 | 0.5 mm² / 0.3 kg |
| | 6 mm² / 1.4 kg |
| | 10 mm² / 2 kg |
| Result | Test passed |

## Environmental and real-life conditions

Aging

| | |
|---|---|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 2, bogie-mounted |

| | |
|---|---|
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| 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 |
| | IEC 60947-7-1 |

## Mounting

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

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1017448

**DNV**
Approval ID: TAE000037B

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| C | | | | |
| Output | 1000 V | 50 A | 20 - 8 | - |
| Input | 1000 V | 100 A | - | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00644

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| F | | | | |
| Output | 1000 V | 50 A | 20 - 8 | - |
| Input | 1000 V | 100 A | - | - |
| E | | | | |
| Output | 1000 V | 50 A | 20 - 8 | - |
| Input | 1000 V | 100 A | - | - |

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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 | 0.523 kg CO2e |


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