

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Pick-off terminal, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 5, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², Bolt connection, Line contact, mounting type: on base element, color: gray

Your advantages

- The fully insulated, optional use pick-off terminal block enables voltage pick-off
- Large-surface marking

Commercial data

Item number	1017448
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BE29
Product key	BE2ZWX
Catalog page	Page 119 (C-1-2019)
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

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

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
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 mm ²
Rated cross section AWG	10

1 level

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 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm ² ... 1.5 mm ²
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 partition plate)
Nominal cross section	6 mm ²

Line contact

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

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 mm ² ... 120 mm ²
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
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
-----------------------------------	--------------------------------

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

Result	Test passed
Short-time withstand current 6 mm ²	0.72 kA
Short-time withstand current 10 mm ²	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 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
	10 mm ² / 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	Service life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²)/Hz
Acceleration	3.12g

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

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 ... 105 °C (max. short-term operating temperature 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 (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
---------------	-----------------

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

Drawings

Circuit diagram



AGK PT 4X6/M10 - Pick-off terminal



1017448

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

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
Use group C				
Output	1000 V	50 A	20 - 8	-
Input	1000 V	100 A	NA - NA	-



EAC

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



cULus Recognized

Approval ID: E60425



cULus Recognized

Approval ID: E60425

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250308

ETIM

ETIM 8.0	EC000897
----------	----------

UNSPSC

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

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



Accessories

HV M10/1 - High Current Connectors

3049408

<https://www.phoenixcontact.com/us/products/3049408>



High Current Connectors, nom. voltage: 1000 V, nominal current: 269 A, number of connections: 1, connection method: Bolt connection, Rated cross section: 120 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

ZB 7,5 CUS - Zack marker strip

0824994

<https://www.phoenixcontact.com/us/products/0824994>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 7.5 mm, lettering field size: 10.5 x 7.4 mm, Number of individual labels: 10

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



ZB 7,5:UNBEDRUCKT - Zack marker strip

0803948

<https://www.phoenixcontact.com/us/products/0803948>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 7.5 mm, lettering field size: 10.5 x 7.4 mm, Number of individual labels: 10

ZBF 7,5:UNBEDRUCKT - Zack Marker strip, flat

0809942

<https://www.phoenixcontact.com/us/products/0809942>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 7.5 mm, lettering field size: 5.15 x 7.4 mm, Number of individual labels: 10

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



ZBF 7,5 CUS - Zack Marker strip, flat

0825028

<https://www.phoenixcontact.com/us/products/0825028>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 7.5 mm, lettering field size: 5.15 x 7.4 mm, Number of individual labels: 10

ZBF 7,5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0809955

<https://www.phoenixcontact.com/us/products/0809955>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 7.5 mm, lettering field size: 5.15 x 7.4 mm, Number of individual labels: 10

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



ZBF 7,5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0809968

<https://www.phoenixcontact.com/us/products/0809968>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 7.5 mm, lettering field size: 5.15 x 7.4 mm, Number of individual labels: 10

TMT (EX9,5)R - Marker for terminal blocks

0828295

<https://www.phoenixcontact.com/us/products/0828295>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snapped, snap into tall marker groove, for terminal block width: 30000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



US-TM 100 - Marker for terminal blocks

0829255

<https://www.phoenixcontact.com/us/products/0829255>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 104 x 9.8 mm, Number of individual labels: 13

ZB 16:UNPRINTED - Zack marker strip

0827461

<https://www.phoenixcontact.com/us/products/0827461>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



ZB 16 CUS - Zack marker strip

0827463

<https://www.phoenixcontact.com/us/products/0827463>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 10.5 x 16 mm, Number of individual labels: 5

ZB 16,LGS:L1-N,PE - Zack marker strip

0827462

<https://www.phoenixcontact.com/us/products/0827462>



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 16.3 mm, lettering field size: 10.5 x 16.25 mm, Number of individual labels: 5

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

UC-TM 16 - Marker for terminal blocks

0819217

<https://www.phoenixcontact.com/us/products/0819217>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

UC-TM 16 CUS - Marker for terminal blocks

0824621

<https://www.phoenixcontact.com/us/products/0824621>



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

AGK PT 4X6/M10 - Pick-off terminal

1017448

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

UCT-TM 16 - Marker for terminal blocks

0829146

<https://www.phoenixcontact.com/us/products/0829146>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

UCT-TM 16 CUS - Marker for terminal blocks

0829637

<https://www.phoenixcontact.com/us/products/0829637>



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: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



ZBF 16:UNPRINTED - Zack Marker strip, flat

0827464

<https://www.phoenixcontact.com/us/products/0827464>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 16.25 x 10.5 mm, Number of individual labels: 50

ZBF 16 CUS - Zack Marker strip, flat

0827465

<https://www.phoenixcontact.com/us/products/0827465>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 5.15 x 16 mm, Number of individual labels: 5

AGK PT 4X6/M10 - Pick-off terminal



1017448

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

UC-TMF 16 - Marker for terminal blocks

0819262

<https://www.phoenixcontact.com/us/products/0819262>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

UC-TMF 16 CUS - Marker for terminal blocks

0824678

<https://www.phoenixcontact.com/us/products/0824678>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

AGK PT 4X6/M10 - Pick-off terminal

1017448

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

UCT-TMF 16 - Marker for terminal blocks

0829218

<https://www.phoenixcontact.com/us/products/0829218>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

UCT-TMF 16 CUS - Marker for terminal blocks

0829693

<https://www.phoenixcontact.com/us/products/0829693>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

AGK PT 4X6/M10 - Pick-off terminal

1017448

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



MPS-MT - Test plugs

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plugs, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



AGK PT 4X6/M10 - Pick-off terminal

1017448

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



MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



AGK PT 4X6/M10 - Pick-off terminal

1017448

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



MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



AGK PT 4X6/M10 - Pick-off terminal

1017448

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



MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



Phoenix Contact 2023 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com