

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



1017448

<https://www.phoenixcontact.com/de/produkte/1017448>

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Pick-off terminal block, nom. voltage: 1000 V, nominal current: 41 A, 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	10 pc
Minimum order quantity	10 pc
Sales Key	A1 - Reihenklemmen
Product Key	BE2ZWX
Catalog Page	Page 119 (C-1-2019)
GTIN	4055626500638
Weight per Piece (including packing)	42,7 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!
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Product properties

Product type	Pick-off terminal block
Number of connections	5
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	1.31 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 solid	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)
Flexible conductor cross section flexible (ferrule, w/o 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

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Line contact

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	32.3 mm
Length	57.4 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

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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
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
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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	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

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ASD level	6.12 (m/s 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 ... 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
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Drawings

Circuit diagram



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Approvals

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

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group F				
Output	1000 V	50 A	20 - 8	-
Input	1000 V	100 A	NA - NA	-
Use group E				
Output	1000 V	50 A	20 - 8	-
Input	1000 V	100 A	NA - NA	-

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Classifications

ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values
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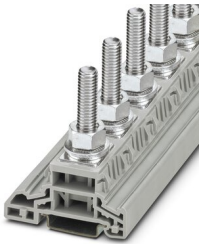
<https://www.phoenixcontact.com/de/produkte/1017448>

Accessories

High Current Connectors

High Current Connectors - HV M10/1 - 3049408

<https://www.phoenixcontact.com/de/produkte/3049408>



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

Zack marker strip

Zack marker strip - ZB 7,5 CUS - 0824994

<https://www.phoenixcontact.com/de/produkte/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

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Zack marker strip

Zack marker strip - ZB 7,5:UNBEDRUCKT - 0803948

<https://www.phoenixcontact.com/de/produkte/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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 7,5:UNBEDRUCKT - 0809942

<https://www.phoenixcontact.com/de/produkte/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

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

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Zack Marker strip, flat

Zack Marker strip, flat - ZBF 7,5 CUS - 0825028

<https://www.phoenixcontact.com/de/produkte/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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 7,5,LGS:FORTL.ZAHLEN - 0809955

<https://www.phoenixcontact.com/de/produkte/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

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

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Zack Marker strip, flat

Zack Marker strip, flat - ZBF 7,5,QR:FORTL.ZAHLEN - 0809968

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - TMT (EX9,5)R - 0828295

<https://www.phoenixcontact.com/de/produkte/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, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

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Marker for terminal blocks

Marker for terminal blocks - US-TM 100 - 0829255

<https://www.phoenixcontact.com/de/produkte/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

Zack marker strip

Zack marker strip - ZB 16:UNPRINTED - 0827461

<https://www.phoenixcontact.com/de/produkte/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

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<https://www.phoenixcontact.com/de/produkte/1017448>

Zack marker strip

Zack marker strip - ZB 16 CUS - 0827463

<https://www.phoenixcontact.com/de/produkte/0827463>

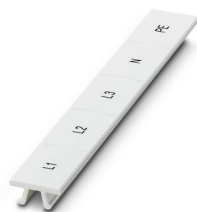


Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 10.5 x 16 mm, Number of individual labels: 5

Zack marker strip

Zack marker strip - ZB 16,LGS:L1-N,PE - 0827462

<https://www.phoenixcontact.com/de/produkte/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

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Marker for terminal blocks

Marker for terminal blocks - UC-TM 16 - 0819217

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UC-TM 16 CUS - 0824621

<https://www.phoenixcontact.com/de/produkte/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

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

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<https://www.phoenixcontact.com/de/produkte/1017448>

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 16 - 0829146

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 16 CUS - 0829637

<https://www.phoenixcontact.com/de/produkte/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

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

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<https://www.phoenixcontact.com/de/produkte/1017448>

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 16:UNPRINTED - 0827464

<https://www.phoenixcontact.com/de/produkte/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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 16 CUS - 0827465

<https://www.phoenixcontact.com/de/produkte/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

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

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<https://www.phoenixcontact.com/de/produkte/1017448>

Marker for terminal blocks

Marker for terminal blocks - UC-TMF 16 - 0819262

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UC-TMF 16 CUS - 0824678

<https://www.phoenixcontact.com/de/produkte/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

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

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<https://www.phoenixcontact.com/de/produkte/1017448>

Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 16 - 0829218

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 16 CUS - 0829693

<https://www.phoenixcontact.com/de/produkte/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

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Test plugs

Test plugs - MPS-MT - 0201744

<https://www.phoenixcontact.com/de/produkte/0201744>



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

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

<https://www.phoenixcontact.com/de/produkte/0201663>



Insulating sleeve, color: white

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Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

<https://www.phoenixcontact.com/de/produkte/0201676>

Insulating sleeve, color: red

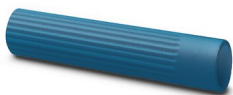


Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

<https://www.phoenixcontact.com/de/produkte/0201689>

Insulating sleeve, color: blue



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Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

<https://www.phoenixcontact.com/de/produkte/0201692>

Insulating sleeve, color: yellow



Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

<https://www.phoenixcontact.com/de/produkte/0201702>

Insulating sleeve, color: green



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Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

<https://www.phoenixcontact.com/de/produkte/0201728>

Insulating sleeve, color: gray



Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

<https://www.phoenixcontact.com/de/produkte/0201731>

Insulating sleeve, color: black



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