

https://www.phoenixcontact.com/in/products/1731035



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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 630 V, nominal cross section: 2.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: GMKDS 3, pitch: 7.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Larger pitch for increased voltage requirements
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- The latching on the side enables various numbers of positions to be combined

Commercial Data

Item number	1731035
Packing unit	100 pc
Minimum order quantity	100 pc
Sales Key	AAM
Product Key	AAMFJA
Catalog Page	Page 123 (C-1-2013)
GTIN	4017918026387
Weight per Piece (including packing)	6.851 g
Weight per Piece (excluding packing)	6.573 g
Customs tariff number	85369010
Country of origin	IN



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Technical Data

Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	GMKDS 3
Number of positions	3
Pitch	7.5 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	24 A
Nominal voltage U _N	630 V
Degree of pollution	3
Rated voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	2.5 mm ²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.75 mm²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm² 1.5 mm²



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ferrule with plastic sleeve		
Stripping length	8 mm	
Tightening torque	0.5 Nm 0.6 Nm	
unting		
Mounting type	Wave soldering	
Pin layout	Linear pinning	
Drive form screw head	Slotted (L)	
Drive form screw head	Slotted (L)	
erial specifications aterial data - contact		
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201	
Contact material	Cu alloy	
Surface characteristics	Tin-plated	
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)	
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)	
aterial data - housing		
Color (Housing)	green (6021)	
Insulating material	PA	
Insulating material group	I	
CTI according to IEC 60112	600	
Flammability rating according to UL 94	V0	
Glow wire flammability index GWFI according to EN 60695-2-12	850	
Glow wire ignition temperature GWIT according to EN 60695-2-13	775	
Temperature for the ball pressure test according to EN 60695-10-2	125 °C	
aterial data – actuating element		
Color ()	()	
es		
Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal block	

Dimensions

(held with one hand, support on the housing).



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Dimensional drawing	n n
Pitch	7.5 mm
Width [w]	22.5 mm
Height [h]	23 mm
Length [I]	11.2 mm
Installed height	18 mm
Solder pin length [P]	5 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11	
Result	Test passed	
Pull-out test		
Specification	IEC 60999-1:1999-11	
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N	
	0.2 mm² / flexible / > 10 N	
	4 mm² / solid / > 60 N	
	2.5 mm² / flexible / > 50 N	

Electrical tests

Temperature-rise test

Specification	IEC 60947-7-4:2019-01
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
Short-time withstand current	
Specification	IEC 60947-7-4:2019-01
Insulation resistance	
Specification	IEC 60512-3-1:2002-02

Air clearances and creepage distances |

Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm



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minimum creepage distance (III/3)	6.3 mm
Note on connection cross section	With connected conductor 4 mm² (solid).
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

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Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2019-01
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Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Packaging specifications

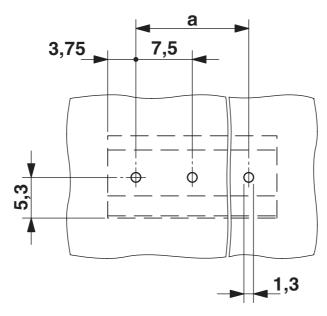


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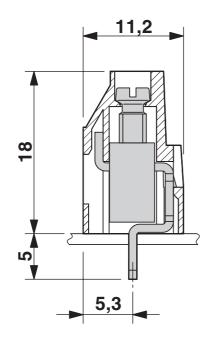


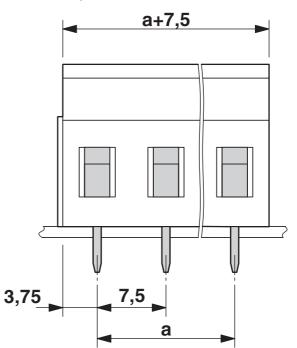
Drawings

Drilling plan/solder pad geometry



Dimensional drawing

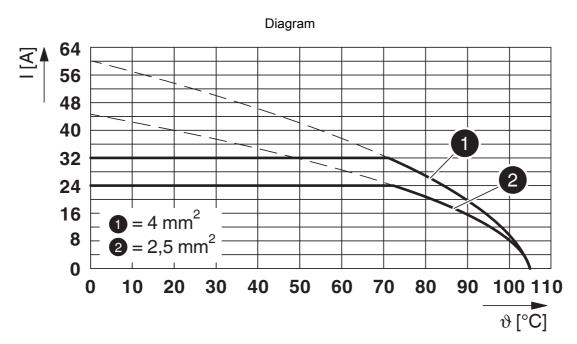






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Type: GMKDS 3/...



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Approvals

CSA Approval ID: 13	631			
	Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	300 V	10 A	28 - 12	-
	300 V	10 A	28 - 12	-

EAC	EAC
LIIL	Approval ID: B.01687

c 911 us	cULus Recognized Approval ID: E60425-19870331				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		300 V	15 A	30 - 12	-
		300 V	10 A	30 - 12	-

DNV GL	
Approval ID: TAE00001EV	

CB scheme	IECEE CB Scheme Approval ID: DE1-66542				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		630 V	30 A	-	0.2 - 4

VDE Zeichengenehmigung Approval ID: 40055394				
	Nominal Voltage \mathbf{U}_{N}	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	630 V	30 A	-	0.2 - 4



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-	11.0	27460101
ECLASS-	12.0	27460101
ECLASS-	13.0	27460101
ETIM		
ETIM 8.0		EC002643
UNSPSC		

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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Accessories

SZS 0,6X3,5 - Screwdriver

1205053

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Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

SK 7,5/5:FORTL.ZAHLEN - Marker card

0804468

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Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots 100, mounting type: adhesive, for terminal block width: 7.5 mm, lettering field size: 7.5 x 5 mm



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SK U/3,8 WH:UNBEDRUCKT - Marker card

0803906

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Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

B-STIFT - Marker pen

1051993

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Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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