1704004

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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: KDS 3, pitch: 5.08 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]: 3.5 mm, number of solder pins per potential: 2, 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
- · Quick and convenient testing using integrated test option
- · Two solder pins reduce the mechanical strain on the soldering spots
- · The latching on the side enables various numbers of positions to be combined

Commercial Data

Item number	1704004
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAM
Product Key	AAMFFA
GTIN	4017918023157
Weight per Piece (including packing)	4.452 g
Weight per Piece (excluding packing)	4.381 g
Customs tariff number	85369010
Country of origin	PL

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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	KDS 3
Number of positions	1
Pitch	5.08 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

PC terminal block can be aligned
2.5 mm ²
Screw connection with tension sleeve
0.2 mm ² 4 mm ²
0.2 mm² 2.5 mm²
24 12
0.25 mm² 2.5 mm²
0.25 mm² 1.5 mm²
0.2 mm² 1 mm²
0.2 mm² 1 mm²
0.25 mm² 0.75 mm²
0.5 mm² 1 mm²

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	ferrule with plastic sleeve	
	Stripping length	8 mm
	Tightening torque	0.5 Nm 0.6 Nm
Мс	punting	
	Mounting type	Wave soldering
	Pin layout	Linear pinning
	Drive form screw head	Slotted (L)
	Drive form screw head	Slotted (L)
F	Processing notes	
	Process	Wave soldering

Material specifications

Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
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

Material data - actuating element

Color ()

Dimensions

Dimensional drawing	h b p p
Pitch	5.08 mm
Width [w]	5.08 mm



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Height [h]	28.5 mm
Length [I]	27 mm
Installed height	25 mm
Solder pin length [P]	3.5 mm

Mechanical tests

Test for conductor damage and slackening	
Specification	IEC 60998-2-1:1990-04
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:1990-04
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	4 mm² / solid / > 60 N
	2.5 mm² / flexible / > 50 N
Torque test	
Specification	IEC 60998-2-1:1990-04

Electrical tests

Temperature-rise test	
Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60998-2-1:1990-04
Insulation resistance, neighboring positions	10 ⁹ Ω
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

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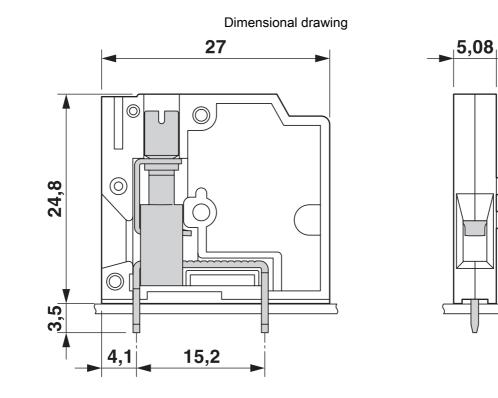
Environmental and real-life conditions

bration test	
Specification	IEC 60068-2-6:1995-03
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
low-wire test	
Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °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
kaging specifications	
Type of packaging	packed in cardboard

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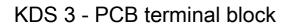
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Drawings



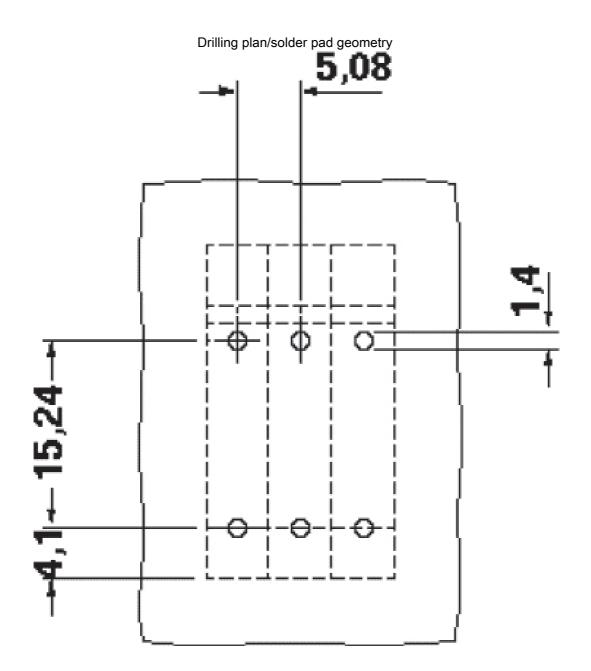
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Approvals

6	CSA Approval ID: 13631				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		300 V	10 A	24 - 12	-

Approval ID: FILE E 6043	25			
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	250 V	15 A	28 - 12	-
	300 V	10 A	28 - 12	-

Approval ID: B.01687



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Classifications

ECLASS

ECLASS-12.0 27460101 ECLASS-13.0 27460101	ECLASS-11.0	27460101
ECLASS-13.0 27460101	ECLASS-12.0	27460101
	ECLASS-13.0	27460101

ETIM

	ETIM 8.0	EC002643
U	NSPSC	
	UNSPSC 21.0	39121400

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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1	
China RoHS	Environmentally Friendly Use Period = 50 years	
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"	

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Accessories

RZ 2,54 - Pitch spacer

1780044 https://www.phoenixcontact.com/in/products/1780044



Pitch spacer, raises the pitch by 2.54 mm, interlocks with terminal block of the same shape, color: green

RPS - Reducing plug

0201647 https://www.phoenixcontact.com/in/products/0201647



Reducing plug, number of positions: 1, color: gray

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SZG 0,6X3,5 VDE - Screwdriver

1205121

https://www.phoenixcontact.com/in/products/1205121



Screwdriver, slot-headed, graded, for test socket screws, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

MPS-MT - Test plugs

0201744 https://www.phoenixcontact.com/in/products/0201744



Test plugs, with solder connection up to 1 \mbox{mm}^2 conductor cross section, number of positions: 1, color: gray

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BNB-ZB 5,LGS:FORTL.ZAHLEN - Marker pin Zack strip

1400201

https://www.phoenixcontact.com/in/products/1400201



Marker pin Zack strip, Strip, white, labeled, printed horizontally: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 491 \dots 500, mounting type: plug in, for terminal block width: 5 mm, lettering field size: 4 x 4 mm, Number of individual labels: 10

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