1721485

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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 rows: 1, number of positions per row: 2, product range: MKKDSH 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: blue, 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
- · Conductor connection on several levels enables higher contact density
- Tall type enables conductor connection for sealed PCBs
- · 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	1721485
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMFKH
GTIN	4017918233785
Weight per piece (including packing)	5.43 g
Weight per piece (excluding packing)	5.26 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKKDSH 3
Product line	COMBICON Terminals M
Туре	PC terminal block can be aligned
Number of positions	2
Pitch	5 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	250 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

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	2.5 mm ²
onductor 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 1.5 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 mm ² 1.5 mm ²
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 ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	7 mm

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Tightening torque	0.5 Nm 0.6 Nm
Mounting	
Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)
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	Tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)
Material data - housing	
Color (Housing)	blue (5015)
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

Notes

Note on applicationFor safe conductor connection, always adhere to a defined
tightening torque. Particularly in the case of PCB terminal blocks
with two or three positions, the individual solder pin for each
contact point cannot compensate for this. That is why the
terminal blocks must be supported during conductor connection

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

Dimensions

Dimensional drawing	h b b b b b b b b b b b b b b b b b b b
Pitch	5 mm
Width [w]	10 mm
Height [h]	36.5 mm
Length [I]	11.1 mm



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	24 5		
Installed height	31.5 mm 5 mm		
Solder pin length [P]	0.9 x 0.9 mm		
Pin dimensions			
PCB design			
Hole diameter	1.3 mm		
echanical tests			
Specification	IEC 60998-2-1:2002-12		
Result	Test passed		
Nesul	Test passed		
Pull-out test			
Specification	IEC 60998-2-1:2002-12		
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		
orque test			
Specification ectrical tests	IEC 60998-2-1:2002-12		
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ectrical tests			
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ctrical tests emperature-rise test Specification Requirement temperature-rise test sulation resistance Specification Insulation resistance, neighboring positions str clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	IEC 60998-1:2002-12 Increase in temperature ≤ 45 K IEC 60998-1:2002-12 $10^9 Ω$ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm 400 V		
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minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

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)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Specification	IEC 60998-1:2002-12
	850 °C
Temperature	
Time of exposure	5 s
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
	-40 °C 70 °C
Ambient temperature (storage/transport)	
Ambient temperature (storage/transport) Relative humidity (storage/transport)	30 % 70 %

Type of packaging

packed in cardboard

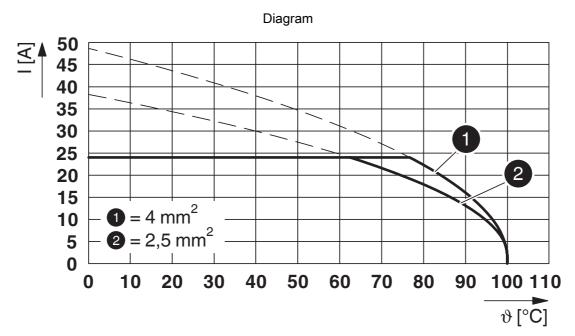
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Drawings



Type: MKKDSH 3/...



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1721485

VDE Zeichengenel Approval ID: 40055535	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	24 A	-	0.2 - 4

Approval ID: E60425-19870326				
	Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
Use group B				
	125 V	15 A	30 - 12	-
Use group D				
	300 V	10 A	30 - 12	-

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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002643	
UNSPSC			
	UNSPSC 21.0	39121400	

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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%		



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Accessories

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Note: Applying some accessories below might limit this product.

EBP 2-5 - Insertion bridge

1733169 https://www.phoenixcontact.com/us/products/1733169

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



1 Max. current carrying capacity: 12 A

SZS 0,6X3,5 - Screwdriver

1205053 https://www.phoenixcontact.com/us/products/1205053

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

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SK 5/3,8:FORTL.ZAHLEN - Marker card

0804183

https://www.phoenixcontact.com/us/products/0804183



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5×3.8 mm

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