1720075

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of rows: 1, number of positions per row: 2, product range: SMKDS 5, pitch: 9.52 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 35 °, color: black, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · The latching on the side enables various numbers of positions to be combined
- · Angled connection enables multi-row arrangement on the PCB

Commercial data

Item number	1720075
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA14
Product key	AANFDN
GTIN	4017918240547
Weight per piece (including packing)	6.69 g
Weight per piece (excluding packing)	6.69 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	SMKDS 5
Product line	COMBICON Terminals L
Туре	PC terminal block can be aligned
Number of positions	2
Pitch	9.52 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	32 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

уре	PC terminal block can be aligned
Nominal cross section	4 mm ²
onductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section AWG	24 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 4 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm ² 1.5 mm ²
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 mm ² 2.5 mm ²
Stripping length	8 mm

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	0.5 Nm 0.6 Nm	
]		
ting type	Wave soldering	
ayout	Linear pinning	
form screw head	Slotted (L)	
specifications data - contact		
	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201	
act material	Cu alloy	
surface terminal point (top layer)	Tin (5 - 7 μm Sn)	
surface soldering area (top layer)	Tin (5 - 7 μm Sn)	
data - housing		
(Housing)	black (9005)	
ating material	PA	
ating material group	1	
ccording to IEC 60112	600	
mability rating according to UL 94	V2	
data - housing (Housing) ating material ating material group according to IEC 60112	black (9005) PA I 600	

Notes

Note on application

For 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

Hole diameter

Dimensional drawing	h h b b
Pitch	9.52 mm
Width [w]	19.04 mm
Height [h]	26.5 mm
Length [I]	18.5 mm
Installed height	21.5 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	

1.3 mm



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Electrical tests

Air clearances and creepage distances	l
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All 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)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 mm
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

Environmental and real-life 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

Packaging specifications

Type of packaging	packed in cardboard
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Approvals

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CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	30 A	28 - 10	-
Use group C				
	300 V	30 A	28 - 10	-

Approval ID: E60425-19870331				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	250 V	30 A	30 - 10	-
Use group C				
	300 V	30 A	30 - 10	-

VDE Zeichengene Approval ID: 40055394	hmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	1000 V	32 A	-	0.2 - 4

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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
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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