

1720020

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 1000 V, nominal cross section: 4 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, 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: 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
- · 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	1720020
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAN
Product Key	AANFDN
Catalog Page	Page 447 (C-1-2013)
GTIN	4017918024987
Weight per Piece (including packing)	9.324 g
Weight per Piece (excluding packing)	9.32 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 L
Product type	Printed circuit board terminal
Product family	SMKDS 5
Number of positions	3
Pitch	9.52 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 <sub>N</sub>	32 A
Nominal voltage U <sub>N</sub>	1000 V
Degree of pollution	3
Rated voltage (III/3)	690 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	1000 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	4 mm²

#### Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
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 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 2.5 mm²



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Width [w]

Height [h]

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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)
terial 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 (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	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V2
Material data – actuating element	
Color ()	0
tes	
Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal bloc 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 connectio (held with one hand, support on the housing).
mensions	
Dimensional drawing	h p
Pitch	9.52 mm

28.56 mm

26.5 mm



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Length [I]	18.5 mm
Installed height	21.5 mm
Solder pin length [P]	5 mm

#### Electrical tests

#### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	690 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	8 mm
Rated insulation voltage (III/2)	1000 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 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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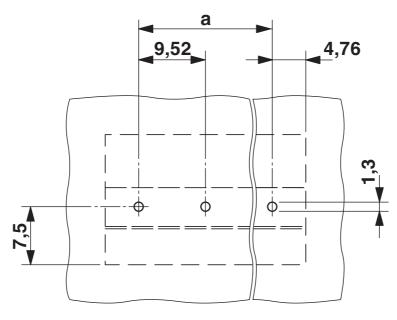


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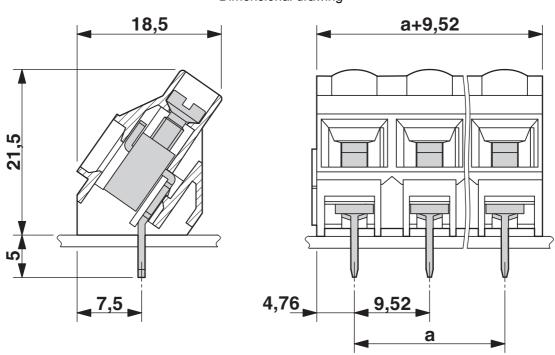


### Drawings

Drilling plan/solder pad geometry



### Dimensional drawing





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### Approvals

CSA Approval ID: 13631				
	Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
	300 V	30 A	28 - 10	-
	300 V	30 A	28 - 10	-

EHC	EAC
LIIL	Approval ID: B.01687

c <b>F11</b> us	cULus Recogniz Approval ID: E60425	<b>zed</b> -19870331			
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		250 V	30 A	30 - 10	-
		300 V	30 A	30 - 10	-

CB scrieme	IECEE CB Scheme Approval ID: DE1-66542				
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		1000 V	32 A	-	0.2 - 4

Nominal Voltage U <sub>N</sub> Nominal Current I <sub>N</sub> Cross Section AWG Cross Section mm <sup>2</sup>	VDE Zeichengenel Approval ID: 40055394	nmigung			
		Nominal Voltage $U_N$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
1000 V 32 A - 0.2 - 4		1000 V	32 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 x 3.5 x 100 mm, 2-component grip, with non-slip grip

#### SK 5,0 WH:REEL - Marker strip

0805221

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Marker strip, 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: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 5 mm, Number of individual labels: 90000

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