

1075926

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Printed circuit board terminal, 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: 20, product range: SMKDS 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 55 °, color: gray, Pin layout: Linear pinning, Solder pin [P]: 4.5 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
- · Angled connection enables multi-row arrangement on the PCB
- · 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	1075926		
Packing unit	50 pc		
Minimum order quantity	50 pc		
Note	Made to order (non-returnable)		
Product key	AAMFIP		
GTIN	4055626783123		
Weight per piece (including packing)	38.062 g		
Weight per piece (excluding packing)	37 g		
Country of origin	IN		



1075926

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Technical data

Product properties

Product type	Printed circuit board terminal	
Product family	SMKDS 3	
Product line	COMBICON Terminals M	
Number of positions	20	
Pitch	5 mm	
Number of rows	1	
Pin layout	Linear pinning	
Solder pins per potential	1	

Electrical properties

Properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
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

Type 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	

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Conductor cross-section rigid	0.2 mm² 4 mm²		
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²		
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 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 1.5 mm ²		
Stripping length	8 mm		
Drive form screw head	Slotted (L)		



1075926

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Tightening torque	0.5 Nm 0.6 Nm		
lounting			
Mounting type	Wave soldering		
Pin layout	Linear pinning		
laterial 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 (4 - 8 μm Sn)		
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)		
Material data - housing			
Color (Housing)	gray (7042)		
Insulating material	PA 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		
otes			
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).		
imensions			
Dimensional drawing			
	n p		
Pitch	5 mm		
Pitch Width [w]	5 mm 100 mm		
Width [w]	100 mm		



1075926

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Solder pin length [P]	4.5 mm	
Pin dimensions	0.9 x 0.9 mm	
PCB design		
Hole diameter	1.3 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)	250 V		
Rated surge voltage (III/3)	4 kV		
minimum clearance value - non-homogenous field (III/3)	3 mm		
minimum creepage distance (III/3)	3.2 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		

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



1075926

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1075926

•	CSA Approval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	10 A	28 - 12	-
D					
		300 V	10 A	28 - 12	-

e 922 us	CULus Recognized Approval ID: E60425-19870331					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
В						
		250 V	15 A	30 - 12	-	
D						
		300 V	10 A	30 - 12	-	

	VDE approval of drawings Approval ID: 40055394				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		400 V	28 A	-	0.2 - 4



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Classifications

ECLASS

	ECLASS-13.0	27460101			
	ECLASS-15.0	27460101			
ETIM					
	ETIM 9.0	EC002643			
UNSPSC					
	UNSPSC 21.0	39121400			

Nov 10, 2025, 6:04 ☐ AM Page 6 (7)



1075926

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Environmental product compliance

EU RoHS

o exemptions
<u> </u>
ardous substances above the limits
stance above 0.1 wt%

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