

2915258

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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 potentials: 2, number of rows: 1, number of positions per row: 2, product range: MKDSO 2,5/..-R, pitch: 5 mm, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

#### Your advantages

- · Maintenance-free and vibration-resistant, thanks to the Reakdyn principle or spring-loaded elements
- · PCB terminal block is orthogonal to the PCB
- · Internationally recognized and proven screw connection

#### Commercial data

Item number	2915258
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AC08
Product key	ACHADA
GTIN	4046356167697
Weight per piece (including packing)	3.7 g
Weight per piece (excluding packing)	3.7 g
Customs tariff number	85369010
Country of origin	DE



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### Technical data

#### Product properties

Product type	Printed circuit board terminal
Product family	MKDSO 2,5/R
Туре	PCB termination block perpendicular to the PCB
Number of positions	2
Pitch	5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

#### Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	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

Nominal cross section	2.5 mm²
Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
Conductor cross-section AWG	26 14
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	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 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 ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	8 mm



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Tightening torque	0.5 Nm 0.6 Nm		
ounting			
Mounting type	Wave soldering		
Pin layout	Linear pinning		
aterial 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 terminal point (middle layer)	Nickel (2 - 3 µm Ni)		
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)		
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)		
Meterial data haveing			
Material data - housing  Color (Housing)	light gray (7035)		
Insulating material	light gray (7035) 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 reliable conductor connection, always adhere to a defined tightening torque.  During conductor connection (mounting), the terminal blocks must be supported (held with one hand, support on the housing).		
imensions			
Dimensional drawing	h p		
Pitch	5 mm		
Width [w]	10.95 mm		
Height [h]	18.05 mm		
Length [I]	15.3 mm		



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Rated surge voltage (II/2)

Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 1 mm
PCB design	
Hole diameter	1.4 mm
all a stratter to	
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
ectrical tests	
Temperature-rise test	
Specification	IEC 60947-7-4:2019-01
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
Short-time withstand current	
Specification	IEC 60947-7-4:2019-01
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
insulation resistance, neighboring positions	· 0 10132
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)	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
	3.2 mm 400 V
minimum creepage distance (III/3)	
minimum creepage distance (III/3) Rated insulation voltage (III/2)	400 V
minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	400 V 4 kV
minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2)	400 V 4 kV 3 mm

4 kV



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Packaging specifications

Type of packaging

inimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm
ronmental and real-life conditions	
Specification	IEC 60068-2-6:2007-12
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
Test directions	X-, Y- and Z-axis
w-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ng	
Specification	IEC 60947-7-4:2019-01
bient conditions	
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

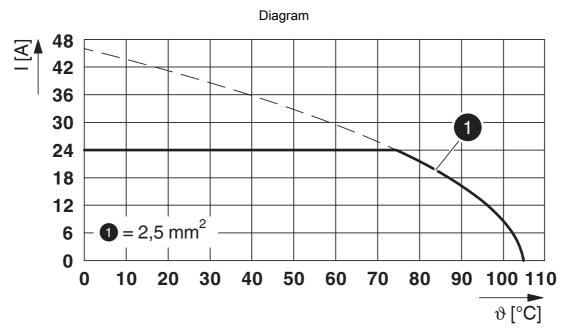
packed in cardboard



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### Drawings



Type: MKDSO 2,5/...-R



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2915258

	CSA Approval ID: 13631				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		300 V	10 A	28 - 12	-
D					
		300 V	10 A	28 - 12	-

c <b>712</b> vs	cULus Recognized Approval ID: E60425-19770427				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		300 V	20 A	30 - 12	-

VDE.	VDE report with production monitoring Approval ID: 40023968				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		450 V	24 A	-	0.2 - 2.5



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ET	IM	
	ETIM 9.0	EC002643
UN	ISPSC	

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-50	
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

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