

2200319

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PCB terminal block, nominal current: 22 A, rated voltage (III/2): 250 V, nominal cross section: 2.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: FKDSO 2,5/..-L, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, 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 left side

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Defined contact force ensures that contact remains stable over the long term
- · Push-in technology for quick and easy wiring
- · Orthogonal alignment of the terminal block with the PCB for optimum accessibility in DIN-rail-mounted devices

Commercial data

Item number	2200319
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC08
Product key	ACHADA
Catalog page	Page 153 (C-1-2013)
GTIN	4046356563840
Weight per piece (including packing)	5.55 g
Weight per piece (excluding packing)	5.55 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Туре	PC termination block
Product type	Printed circuit board terminal
Product family	FKDSO 2,5/L
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	22 A
Nominal voltage U _N	250 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	250 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	2.5 mm²
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Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 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 the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 1.5 mm ²
Stripping length	10 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning



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Processing notes	
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Process	Wave soldering
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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 (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

Material data - housing

Color (Housing)	light grey (7035)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data - actuating element

Insulating material	PBT GF
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Notes

Safety note

Safety note	WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	 The item is intended to be an unencapsulated plug for installation in a housing.

Dimensions



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Dimensional drawing	h
Pitch	5 mm
Width [w]	20.9 mm
Height [h]	19.05 mm
Length [I]	18.8 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 1 mm
PCB design	
Pin spacing	5.08 mm
Hole diameter	1.4 mm

Mechanical 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	0.2 mm² / solid / > 10 N
setpoint/actual value	2.5 mm² / solid / > 50 N
	0.2 mm² / flexible / > 10 N
	4 mm² / flexible / > 60 N

Electrical tests

Temperature-rise test

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Specification	IEC 60947-7-4:2013-08
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 60947-7-4:2013-08
Insulation resistance	UEC 00540 2 4:0000 00
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 1 TΩ
Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	



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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)	250 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	1.25 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

Vibration test

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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2013-08
Ambient conditions	
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying

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

Packaging specifications

Type of packaging packed in cardboard



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
	ECLASS-13.0	27460101
	11.4	
ET	IIVI	
	ETIM 9.0	EC002643
UN	ISPSC	
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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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