1712342

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PCB terminal block, 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: MKDS 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Matches EMG 10 component housing

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · 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	1712342
Packing unit	50 рс
Minimum order quantity	50 рс
Sales key	AA13
Product key	AAMFIA
Catalog page	Page 708 (C-1-2013)
GTIN	4017918023812
Weight per piece (including packing)	3.958 g
Weight per piece (excluding packing)	3.958 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	MKDS 3
Number of positions	2
Pitch	5 mm
Set comprises	2942959 EMG 10-LG/SET
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
Degree of pollution	3
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

Туре	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 mm ² 4 mm ²
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 mm ² 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
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

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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm
Conductor connection	
Connection method	Screw connection with tension sleeve
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm
ounting	
Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)
aterial specifications Material data - contact Note	WEEE/RoHS-compliant, free of whiskers according to IE
Material data - contact	WEEE/RoHS-compliant, free of whiskers according to IE0
Material data - contact Note	60068-2-82/JEDEC JESD 201
Material data - contact Note Contact material	60068-2-82/JEDEC JESD 201 Cu alloy
Material data - contact Note Contact material Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer)	Cu alloy Tin-plated Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing) Insulating material	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600 V0
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-12	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600 V0 850

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).
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Dimensions



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Dimensional drawing	h p p
Pitch	5 mm
Width [w]	10 mm
Height [h]	23 mm
Length [I]	11.2 mm
Installed height	18 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Pin spacing	5 mm
Hole diameter	1.3 mm
ichanical tests	
est for conductor damage and slackening Specification	IEC 60999-1:1999-11 Test passed
est for conductor damage and slackening Specification Result	IEC 60999-1:1999-11 Test passed
Test for conductor damage and slackening Specification Result Pull-out test	Test passed
Test for conductor damage and slackening Specification Result Pull-out test Specification	Test passed IEC 60999-1:1999-11
Test for conductor damage and slackening Specification Result Pull-out test	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 4 mm² / solid / > 60 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 4 mm² / solid / > 60 N
Test for conductor damage and slackening Specification Result Oull-out test Specification Conductor cross section/conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 4 mm² / solid / > 60 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force setpoint/actual value Conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 4 mm² / solid / > 60 N 2.5 mm² / flexible / > 50 N

 Insulation resistance
 IEC 60512-3-1:2002-02

 Insulation resistance, neighboring positions
 > 5 MΩ

IEC 60947-7-4:2019-01

IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09

Air clearances and creepage distances |

Specification

Specification



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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
Note on connection cross section	With connected conductor 4 mm ² (solid).
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

pecification	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)
Fest duration per axis	2.5 h
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 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
aging specifications	

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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 9.0	EC002643
U	NSPSC	
	UNSPSC 21.0	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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