

PCB terminal block - FKDSO 2,5/ 4-R KMGY - 2200320

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PCB terminal block, nominal current: 22 A, pitch: 5 mm, number of positions: 4, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray. Article with lateral pin exit

Your advantages

- ✓ Spring-cage PCB terminal block for ME/ME MAX electronics housing
- ✓ Push-in Technology simplifies connection
- ✓ 5 mm pitch



Key Commercial Data

Packing unit	50 pc
GTIN	
GTIN	4046356563857

Technical data

Item properties

Pitch	5 mm
Number of positions	4
Connection method	Push-in spring connection
Mounting type	Wave soldering
Pin layout	Linear pinning

Electrical parameters

Rated current	22 A
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	4 kV

Connection capacity

Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²

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Technical data

Connection capacity

Conductor cross section AWG / kcmil	24 ... 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Stripping length	10 mm

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

Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions for the product

Length [l]	25.9 mm
Height [h]	26.5 mm
Pitch	5 mm
Height (without solder pin)	24 mm
Solder pin [P]	3.5 mm
Pin dimensions	0.8 x 1 mm
Dimension a	15 mm

Dimensions for PCB design

Hole diameter	1.4 mm
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Packaging information

Pieces per package	50
Denomination packing units	Pcs.

Processing notes

Process	Wave soldering
Specification	Following IEC 61760-1:2006-04
	Following IEC 60068-2-54:2006-04

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C (Depending on the current carrying capacity/derating curve)
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Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm ² / solid / > 10 N
	2.5 mm ² / solid / > 50 N
	0.2 mm ² / flexible / > 10 N
	4 mm ² / flexible / > 60 N

Mechanical tests according to standard

Test specification	IEC 60947-7-4
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Electrical tests

Rated current	22 A
Conductor cross section	2.5 mm ²
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	4 kV

Air clearances and creepage distances

Specification	IEC 60947-1:2007-06 + A1:2010-12
Rated insulation voltage (III/3)	250 V
Rated insulation voltage (III/2)	250 V
Rated insulation voltage (II/2)	630 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Minimum clearance - inhomogeneous field (III/3)	3 mm
Minimum clearance - inhomogeneous field (III/2)	3 mm
Minimum clearance - inhomogeneous field (II/2)	3 mm
Minimum creepage distance value (III/3)	3.2 mm
Minimum creepage distance value (III/2)	1.25 mm
Minimum creepage distance value (II/2)	3.2 mm

Current carrying capacity / derating curves

Specification	IEC 60947-7-4
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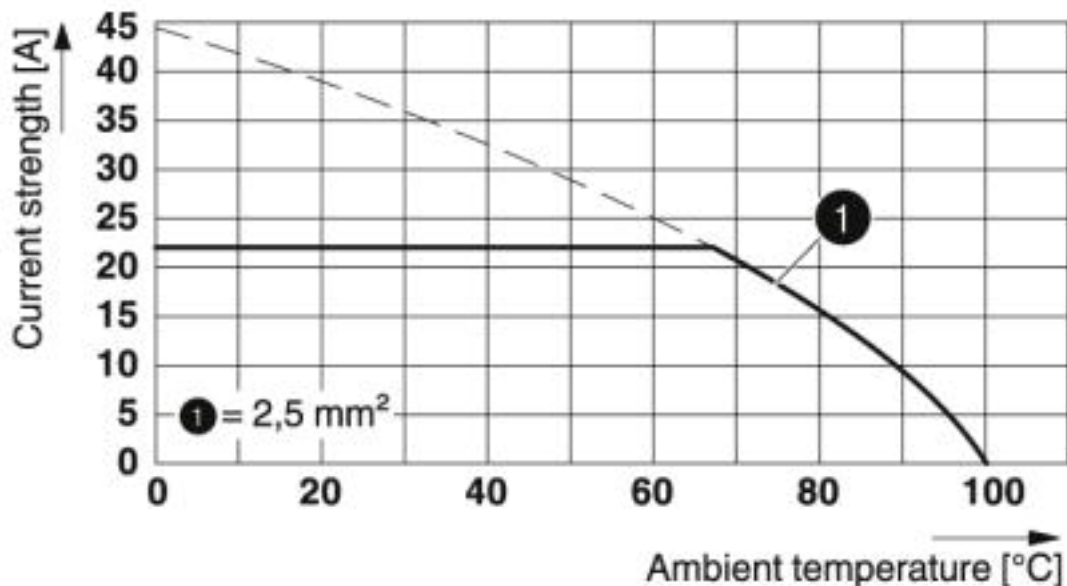
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Drawings

Diagram



Type: FKDSO 2,5/...-L(R)
 Tested according to DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 Number of positions: 4

Approvals

Approvals

Approvals

IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized


Ex Approvals


Approval details


IECEE CB Scheme		http://www.iecee.org/	DE1-59403
Nominal voltage UN	250 V		
Nominal current IN	22 A		
mm ² /AWG/kcmil	0.2-2.5		

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Approvals

VDE Gutachten mit Fertigungsüberwachung		http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40033478
Nominal voltage UN		250 V	
Nominal current IN		22 A	
mm ² /AWG/kcmil		0.2-2.5	

EAC		B.01742
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110930
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	5 A	
mm ² /AWG/kcmil	24-14	24-14	

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