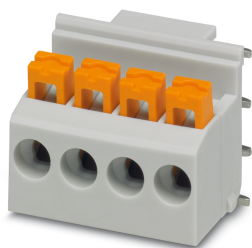


PCB terminal block - FKDSO 2,5/ 4-R KMGY - 2200320

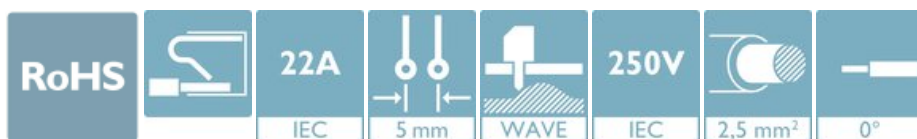
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PCB terminal block, nominal current: 22 A, rated voltage (III/2): 250 V, nominal cross section: 2.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: FKDSO 2,5/...-R, pitch: 5 mm, connection method: Push-in 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 right side

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Intuitive use through colour coded actuation lever
- ✓ 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



Key Commercial Data

Packing unit	50 pc
GTIN	 4 046356 563857
GTIN	4046356563857

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	FKDSO 2,5/...-R
Pitch	5 mm
Number of positions	4
Pin layout	Linear pinning
Number of rows	1
Number of connections	4
Number of potentials	4

Electrical parameters

Nominal current	22 A
Nom. voltage	250 V

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

Technical data

Electrical parameters

Rated voltage (III/3)	250 V
Rated voltage (III/2)	250 V
Rated 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

Connection capacity

Connection method	Push-in spring connection
pluggable	no
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG / kcmil	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 mm² ... 1.5 mm²
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

Housing color	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

Color of the actuating lever	orange (2003)
Insulating material	PBT GF
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [l]	18.8 mm

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

Technical data

Dimensions for the product

Width [w]	20.9 mm
Height [h]	19.05 mm
Pitch	5 mm
Solder pin [P]	3.5 mm
Pin dimensions	0.8 x 1 mm

Dimensions for PCB design

Hole diameter	1.4 mm
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Packaging information

Type of packaging	packed in cardboard
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 ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 105 °C (Depending on the current carrying capacity/derating curve)
Relative humidity (storage/transport)	30 % ... 70 %

Connection and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
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Pull-out test

Pull-out test	IEC 60999-1:1999-11
Conductor cross section / conductor type / tensile force	0.2 mm² / solid / > 10 N
	2.5 mm² / solid / > 50 N
	0.2 mm² / flexible / > 10 N
	4 mm² / flexible / > 60 N

Air clearances and creepage distances

Clearances and creepage distances	IEC 60947-1:2007-06 + A1:2010-12
Specification	IEC 60947-1:2007-06 + A1:2010-12
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

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

Technical data

Temperature-rise test

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.

Current carrying capacity / derating curves

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

Specification	IEC 60512-3-1:2002-02
Result	Test passed
Insulation resistance, neighboring positions	> 1 TΩ

Alternating climate test

Result	Test passed
Specification	ISO 6988:1985-02

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Test for assessing the risk of fire (glow wire)

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

Standards and Regulations

Connection in acc. with standard	EN-VDE
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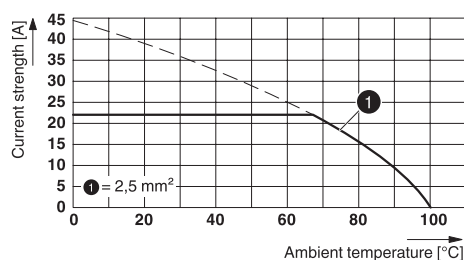
Environmental Product Compliance

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

Drawings

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

Diagram



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

Classifications

eCl@ss

eCl@ss 10.0.1	27440401
eCl@ss 11.0	27460101
eCl@ss 4.0	27180400
eCl@ss 4.1	27180400
eCl@ss 5.0	27180500
eCl@ss 5.1	27261100
eCl@ss 6.0	27261100
eCl@ss 7.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 2.0	EC001031
ETIM 3.0	EC001031
ETIM 4.0	EC002643
ETIM 6.0	EC002643
ETIM 7.0	EC002643

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121400

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

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

IECEE CB Scheme		http://www.iecee.org/	DE1-59403
Nominal voltage UN	250 V		
Nominal current IN	22 A		
mm²/AWG/kcmil	0.2-2.5		

EAC		B.01687
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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	
mm²/AWG/kcmil	24-14	24-14	

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		
mm²/AWG/kcmil	0.2-2.5		

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