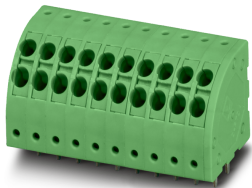


PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

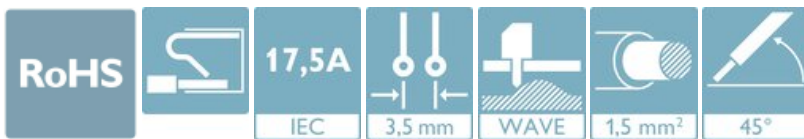


PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 240 V, nominal cross section: 1.5 mm², Number of rows: 1, Number of positions per row: 4, product range: PTDA 1,5/, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: multi-color, Pin layout: Linear double pinning, Solder pin [P]: 3.5 mm, type of packaging: packed in cardboard

The figure shows a 10-position version of the product

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Potentials can be easily looped through – ideal for BUS applications
- ✓ Quick and convenient testing using integrated test option
- ✓ Rounded type for individual device design
- ✓ Two solder pins reduce the mechanical strain on the soldering spots



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	1000 pc
GTIN	
GTIN	4055626321196
Weight per Piece (excluding packing)	5.200 g
Custom tariff number	85369010
Country of origin	Bulgaria

Technical data

Item properties

Brief article description	PCB terminal block
---------------------------	--------------------

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Technical data

Item properties

Range of articles	PTDA 1,5/
Pitch	3.5 mm
Number of positions	4
Mounting type	Wave soldering
Pin layout	Linear double pinning
Number of rows	1

Electrical parameters

Nominal current	17.5 A
Nom. voltage	240 V
Rated voltage (III/3)	200 V
Rated voltage (III/2)	240 V
Rated voltage (II/2)	400 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

Connection capacity

Connection method	Push-in spring connection
Conductor cross section solid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG / kcmil	24 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² ... 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² ... 0.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
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	0.5 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.5 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 (4 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)

Material data - housing

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Technical data

Material data - housing

Housing color	multi-color
Insulating material	PA
Insulating material group	I
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

Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [l]	16 mm
Width [w]	15.4 mm
Height [h]	19.5 mm
Pitch	3.5 mm
Height (without solder pin)	16 mm
Solder pin [P]	3.5 mm
Pin spacing	3.5 mm
Pin dimensions	1 x 0.4 mm

Dimensions for PCB design

Hole diameter	1.3 mm
Pin spacing	3.5 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)

Termination and connection method

Connection test	IEC 60998-2-2:2002-12
Test result	Test passed
Test for conductor damage and slackening	IEC 60998-2-2:2002-12

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Technical data

Termination and connection method

	Test passed
--	-------------

Pull-out test

Pull-out test	IEC 60998-2-2:2002-12
Conductor cross section / conductor type / tensile force	0.2 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	1.5 mm ² / solid / > 40 N
	1.5 mm ² / flexible / > 40 N

Mechanical tests according to standard

Test specification	IEC 60998-2-2 (in parts)
--------------------	--------------------------

Electrical tests

Rated current	17.5 A
Conductor cross section	1.5 mm ²
Rated voltage (III/2)	240 V
Rated surge voltage (III/2)	2.5 kV

Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	2.5 mm
Minimum creepage distance value (III/2)	1.25 mm
Minimum creepage distance value (II/2)	2 mm

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.

Current carrying capacity / derating curves

Caption	Type: PTDA 1,5/...-3,5
---------	------------------------

Vibration test

Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	5g (60.1 - 150 Hz)

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Technical data

Vibration test

Test duration per axis	2.5 h
------------------------	-------

Insulation resistance

Specification	IEC 60998-1:2002-12
Result	Test passed
Insulation resistance, neighboring positions	> 5 MΩ

Glow-wire test

Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s

Mechanical strength/tumbling barrel test

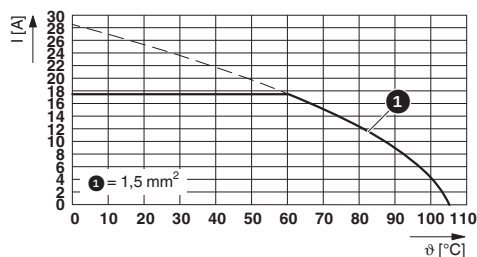
Specification	IEC 60998-1:2002-12
Number of drop cycles	50

Environmental Product Compliance

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

Drawings

Diagram



Type: PTDA 1,5/...-3,5

Classifications

eCl@ss

eCl@ss 10.0.1	27440401
eCl@ss 11.0	27460101
eCl@ss 5.1	27261100
eCl@ss 6.0	27261100

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Classifications

eCl@ss

eCl@ss 7.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 6.0	EC002643
ETIM 7.0	EC002643

UNSPSC

UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

Approvals


Approvals

Approvals

VDE Gutachten mit Fertigungsüberwachung / CCA / IECCE CB Scheme / EAC / cULus Recognized

Ex Approvals


Approval details


VDE Gutachten mit Fertigungsüberwachung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40030462
Nominal voltage UN	130 V		
Nominal current IN	17.5 A		
mm ² /AWG/kcmil	0.2-1.5		


CCA	DE1 34029
Nominal voltage UN	130 V
Nominal current IN	17.5 A
mm ² /AWG/kcmil	0.2-1.5

PCB terminal block - PTDA 1,5/ 4-3,5 MIX RD/BK - 1713232

Approvals

IECEE CB Scheme		http://www.iecee.org/	DE1-64516
Nominal voltage UN	130 V		
Nominal current IN	17.5 A		
mm ² /AWG/kcmil	0.2-1.5		

EAC		B.01687
-----	---	---------

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20030211
	B	C	D
Nominal voltage UN	300 V	150 V	300 V
Nominal current IN	12 A	12 A	10 A
mm ² /AWG/kcmil	24-16	24-16	24-16