

1771088

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PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm², number of potentials: 8, number of rows: 1, number of positions per row: 8, product range: PTSM 0,5/..-H-SMD, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: black, Pin layout: Linear pad geometry, number of solder pins per potential: 1, type of packaging: 44 mm wide tape

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · High current carrying capacity of 6 A in very compact dimensions
- · Designed for integration into the SMT soldering process
- · Additional solder anchors reduce the mechanical strain on the soldering spots



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Commercial Data

Order Key	1771088
Packing unit	770 pc
Minimum order quantity	770 pc
Sales Key	AAC
Product Key	AAKDAA
Catalog Page	Page 53 (C-1-2013)
GTIN	4046356459730
Weight per Piece (including packing)	2.5 g
Weight per Piece (excluding packing)	2.43 g
Customs tariff number	85369010
Country of origin	IN



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Technical Data

Product properties

Number of positions	8
Number of connections	8
Number of rows	1
Number of potentials	8
Pin layout	Linear pad geometry

Electrical properties

Maximum load current	6 A
Rated voltage (II/2)	160 V
Rated voltage (III/2)	160 V
Rated surge voltage (II/2)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (III/3)	2.5 kV
Nominal voltage U _N	32 V
Nominal current I _N	6 A
Nominal current I _N	6 A

Connection data

Connection technology

Nominal cross section	0.5 mm²
Conductor connection	
Connection method	Push-in spring connection
Conductor cross section solid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.2 mm ² 0.5 mm ² (up to 0.75 mm ² supported, with a stripping length of 7.5 mm and a rated insulation voltage of 32 V at III/2)
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.34 mm²
Cylindrical gauge a x b / diameter	- / 1.2 mm
Stripping length	6 mm

Mounting

Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

Material specifications



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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	hot-dip 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

Housing color	black (9005)
Insulating material	LCP
Insulating material group	Illa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Material data - actuating element

Color of the actuating lever	black (9005)

Dimensions

Dimensional drawing	n n
Width	22.6 mm
Height	5.12 mm
Installed height	5.12 mm
Length	9 mm
Pitch	2.5 mm
PCB design	
Pad geometry	1.4 x 3.4 mm

Mechanical tests

Connection test

Specification	IEC 60998-2-2:2002-12
Result	Test passed
Test for conductor damage and slackening	
Specification	IEC 60998-2-2:2002-12
Result	Test passed

Pull-out test	
Specification	IEC 60998-2-2:2002-12
	0.14 mm² / solid / > 10 N



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Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / flexible / > 10 N
	0.5 mm ² / solid / > 20 N
	0.75 mm² / flexible / > 30 N
exion test	
Specification	IEC 60998-2-2:2002-12
Result	Test passed
ctrical tests	
Electrical properties	
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Pollution degree	2
emperature-rise test	
Specification	IEC 60998-2-1:2002-12
Requirement temperature-rise test	Increase in temperature ≤ 45 K
sulation resistance	
Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 5 MΩ
ir clearances and creepage distances	
Specification	IEC 60664-1:1992-10 + A1:2000-02 + A2:2002-05
Insulating material group	Illa
Comparative tracking index (IEC 60112:2003-01)	CTI 175
Rated insulation voltage (III/3)	32 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	1.3 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.6 mm
Rated insulation voltage (II/2)	160 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Environmental and real-life conditions

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)



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Specification

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Sweep speed	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °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)	5.00 400.00
Ambient temperature (assembly)	-5 °C 100 °C
kaging specifications	-5 °C 100 °C
, , , , , , , , , , , , , , , , , , , ,	-5 °C 100 °C
kaging specifications	
kaging specifications Type of packaging	44 mm wide tape
kaging specifications Type of packaging [W] tape width	44 mm wide tape 44 mm
kaging specifications Type of packaging [W] tape width [W2] coil overall dimension	44 mm wide tape 44 mm 50.4 mm

DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



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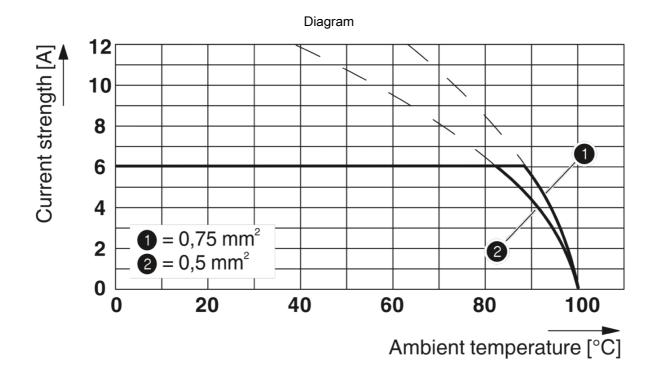
Drawings

Dimensional drawing a+3 1,95 P 0,8 1,5



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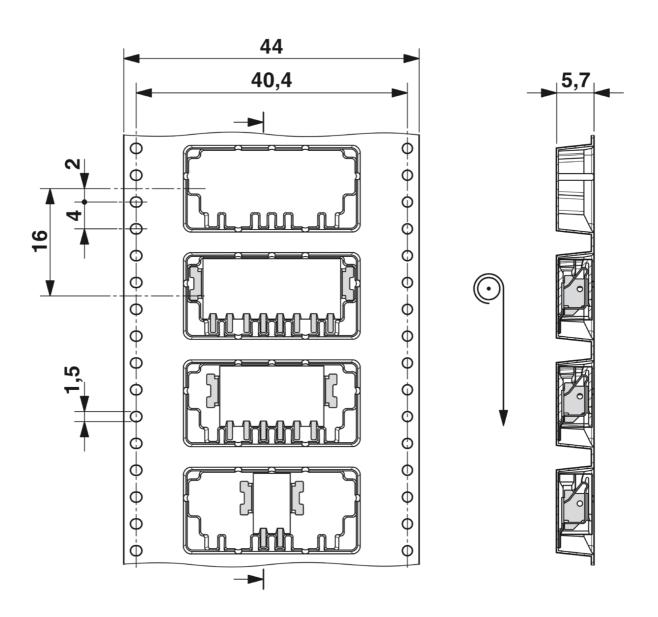




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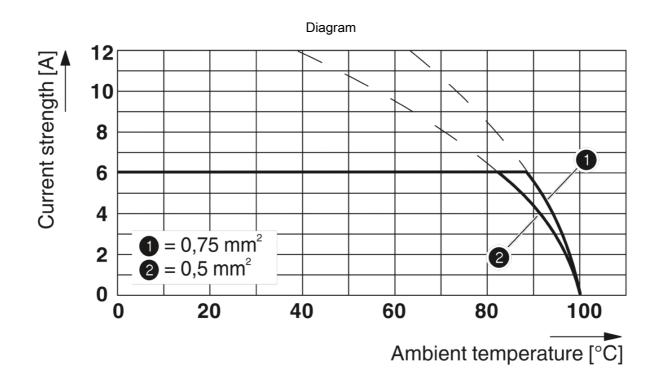
Dimensional drawing



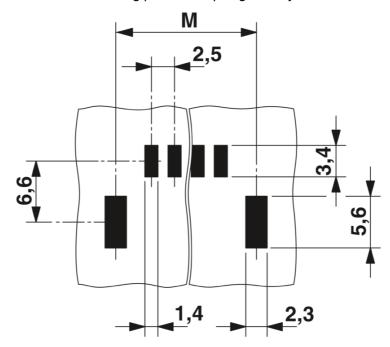


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Drilling plan/solder pad geometry



Dimension M: 22.7 mm



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Approvals

UL Recognized 👊	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	150 V	5 A	26 - 18	-

EAC III

cULus Recognized	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	150 V	5 A	26 - 20	-

VDE Zeichengenehmigung <u>△</u>



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-9.0	27440401
	ECLASS-10.0.1	27440401
	ECLASS-11.0	27460101
ETIM		
	ETIM 6.0	EC002643
UNSPSC		
	UNSPSC 19.0	39121432
	UNSPSC 20.0	39121432

39121432



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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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Accessories

Screwdriver

Screwdriver - SZS 0,4X2,0 - 1205202



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

Ferrule

Ferrule - Al 0,25- 6 BU - 3203040



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: blue



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Ferrule

Ferrule - Al 0,25- 6 YE - 3203024



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

Ferrule

Ferrule - Al 0,34- 6 TQ - 3203053



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: turquoise



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Sample set

Sample set - SAMPLE PTSM 0,5/ 8-2,5-H-SMD - 1701083



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Sample set

Sample set - SAMPLE PTSM 0,5/ 2-2,5-H-SMD - 1701075



PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: PTSM 0,5/..-H-SMD, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0°, color: black, Pin layout: Linear pad geometry, Solder pin [P]: 2 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. SAMPLE set with 5 items in belt section. When used as part of soldering process, please use items without SAMPLE marking

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PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in

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