PCB terminal block - PT 2,5/ 5-7,5-H - 1988134

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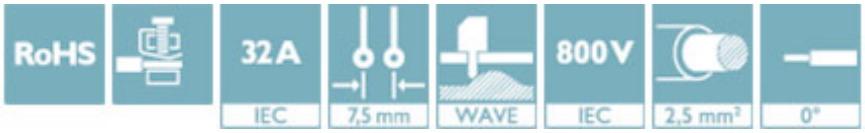
The figure shows a 10-position version of the product

PCB terminal block, nominal current: 32 A, rated voltage (III/2): 800 V, nominal cross section: 2.5 mm², pitch: 7.5 mm, number of positions: 5, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 mm

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- High terminal block capacity thanks to rectangular terminal block space
- Allows connection of two conductors
- The latching on the side enables various numbers of positions to be combined



Key Commercial Data

Packing unit	100 pc
GTIN	4 046356 036665
GTIN	4046356036665

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	PT 2,5/..-H
Pitch	7.5 mm
Number of positions	5
Connection method	Screw connection with wire protector
Screw thread	M3
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1
Number of connections	5

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Item properties

Number of potentials	5

Electrical parameters

Nominal current	32 A
Nom. voltage	800 V
Rated voltage	500 V
Rated voltage (III/2)	800 V
Rated voltage (II/2)	1000 V
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV

Connection capacity

Connection method	Screw connection with wire protector
pluggable	no
Conductor cross section solid	0.5 mm² ... 4 mm²
Conductor cross section flexible	0.5 mm² ... 4 mm²
Conductor cross section AWG / kcmil	20 ... 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm² ... 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² ... 2.5 mm²
2 conductors with same cross section, solid	0.5 mm² ... 1.5 mm²
2 conductors with same cross section, flexible	0.5 mm² ... 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² ... 0.75 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Stripping length	6.5 mm
Torque	0.45 Nm ... 0.5 Nm

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 (3 - 12 µm Sn)
Metal surface terminal point (middle layer)	Nickel (1.5 - 4 µm Ni)
Metal surface soldering area (top layer)	Tin (3 - 12 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.5 - 4 µm Ni)

Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600

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Material data - housing

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

Length [l]	9 mm
Width [w]	37.5 mm
Height [h]	17.6 mm
Pitch	7.5 mm
Height (without solder pin)	13.5 mm
Solder pin [P]	4.1 mm
Pin spacing	7.5 mm
Pin dimensions	ø 1 mm

Dimensions for PCB design

Hole diameter	1.3 mm
Pin spacing	7.5 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	100
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

Electrical tests

Rated current	32 A
Conductor cross section	4 mm²
Rated voltage (III/2)	800 V
Rated surge voltage (III/2)	6 kV

Air clearances and creepage distances

Clearances and creepage distances	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum clearance - inhomogeneous field (III/2)	5.5 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	6.3 mm
Minimum creepage distance value (III/2)	5.5 mm

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Air clearances and creepage distances

Minimum creepage distance value (II/2)	5.5 mm
Note on connection cross section	With connected conductor 4 mm² (stranded).

Current carrying capacity / derating curves

Standards and Regulations

Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Drilling diagram

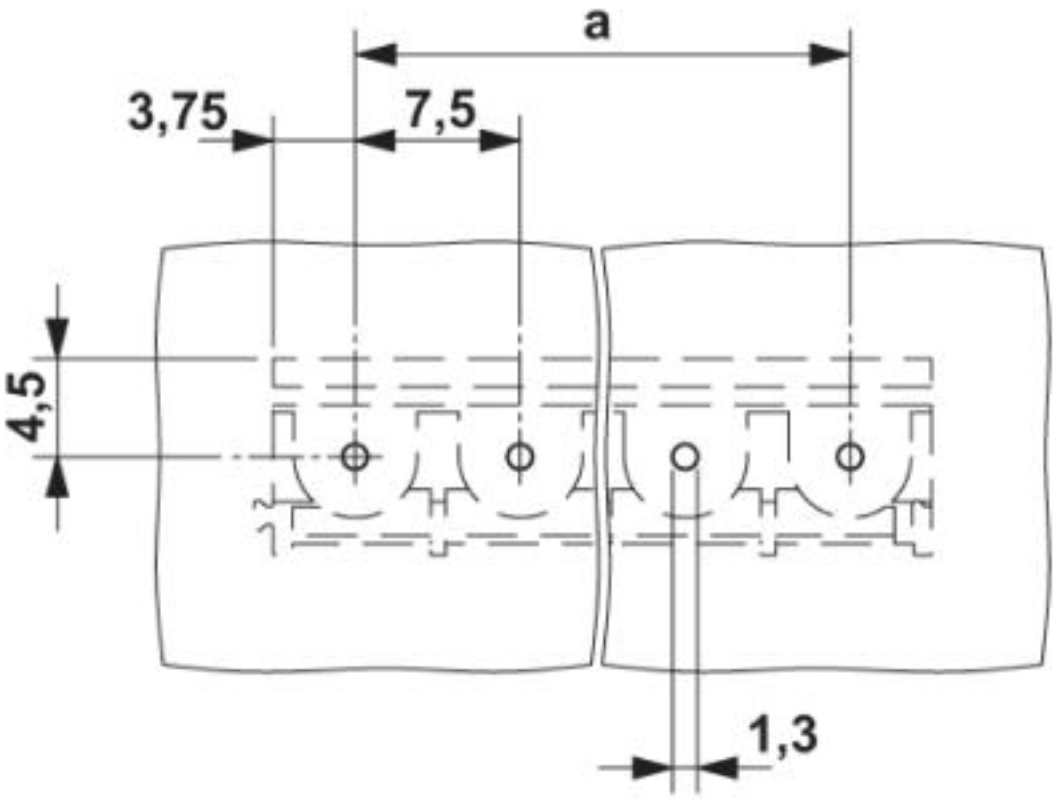

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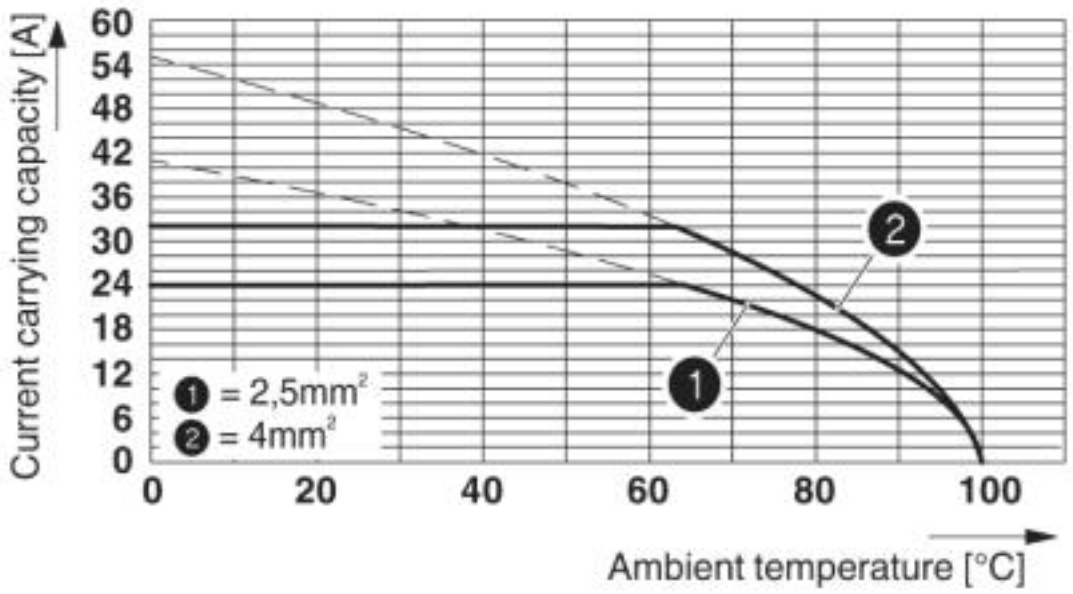
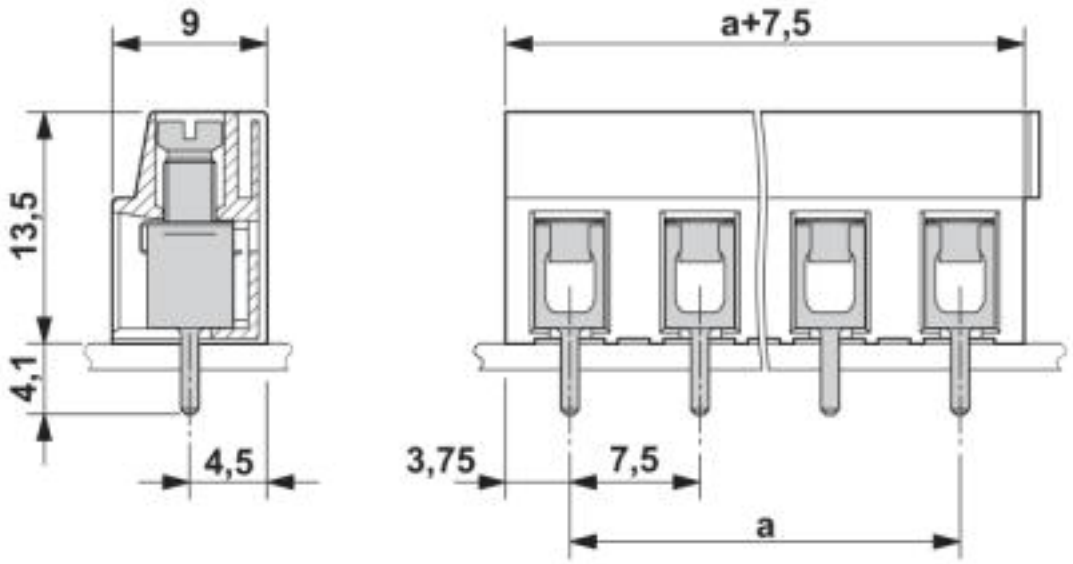
Diagram



Derating diagram for 5 pins;reduction factor=1

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27440401
eCl@ss 4.0	27260700
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100

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Classifications

eCl@ss

eCl@ss 5.1	27261100
eCl@ss 6.0	27261100
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643
ETIM 6.0	EC002643
ETIM 7.0	EC002643

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	34131203
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

CCA	DE1 34001
Nominal voltage UN	750 V
Nominal current IN	32 A
mm²/AWG/kcmil	0.5-4

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Approvals

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-58861

Nominal voltage UN	750 V
Nominal current IN	32 A
mm²/AWG/kcmil	0.5-4

VDE Gutachten mit Fertigungsüberwachung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40029839

Nominal voltage UN	750 V
Nominal current IN	32 A
mm²/AWG/kcmil	0.5-4

EAC	EAC	B.01687

cULus Recognized	c UL us	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	20 A	20 A	10 A
mm²/AWG/kcmil	20-12	20-12	20-12

Accessories

Accessories

Labeled terminal marker

Marker card - SK 7,5/3,8:FORTL.ZAHLEN - 0804455

Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.5 mm, lettering field size: 7.5 x 3.8 mm

Screwdriver tools

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Screwdriver - SZS 0,6X3,5 - 1205053

Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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