

PCB terminal block - MKDSP 25/ 4-15,00-F BK T20L - 1707808

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PCB terminal block, nominal current: 125 A, nom. voltage: 1000 V, pitch: 15 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: black

The figure shows a 5-pos. version of the product

Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Quick and convenient testing using integrated test option
- ✓ Mounting flanges reduce the mechanical strain on the soldering spots
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



Key Commercial Data

Packing unit	25 pc
Minimum order quantity	25 pc
GTIN	 4 046356 947596
GTIN	4046356947596

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDSP 25/...-F
Pitch	15 mm
Number of positions	4
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted Torx® (T20L)
Screw thread	M5
Mounting type	Wave soldering

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Technical data

Item properties

Pin layout	Linear double pinning
Number of levels	1

Electrical parameters

Rated current	125 A
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

Connection capacity

Conductor cross section solid	0.5 mm ² ... 35 mm ²
Conductor cross section flexible	0.5 mm ² ... 35 mm ²
Conductor cross section AWG / kcmil	20 ... 2
Conductor cross section flexible, with ferrule without plastic sleeve	1 mm ² ... 35 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm ² ... 35 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm ² ... 16 mm ²
Stripping length	18 mm
Torque	2.5 Nm ... 4.5 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	galvanized
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
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]	31 mm
Width [w]	60 mm
Height [h]	43.5 mm

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Dimensions for the product

Pitch	15 mm
Height (without solder pin)	39 mm
Solder pin [P]	4.5 mm
Pin dimensions	1.2 x 1.2 mm
Dimension a	45 mm

Dimensions for PCB design

Hole diameter	1.6 mm
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Packaging information

Type of packaging	packed in cardboard
Pieces per package	25
Denomination packing units	Pcs.
Outer packaging type	Carton
Delivery state	Open clamping space

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
Ambient temperature (operation)	-40 °C

Electrical tests

Rated current	125 A
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

Air clearances and creepage distances

Insulating material group	I
Voltage	1000 V
Rated insulation voltage (III/3)	1000 V
Rated insulation voltage (III/2)	1000 V
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV

Current carrying capacity / derating curves

Standards and Regulations

Connection in acc. with standard	EN-VDE
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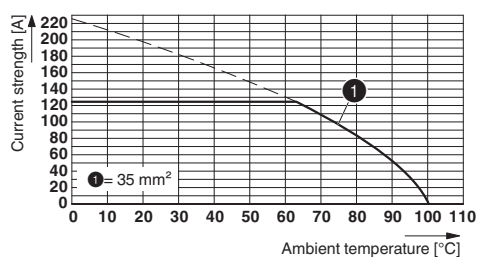
Technical data

Environmental Product Compliance

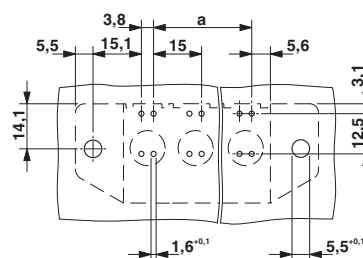
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Diagram

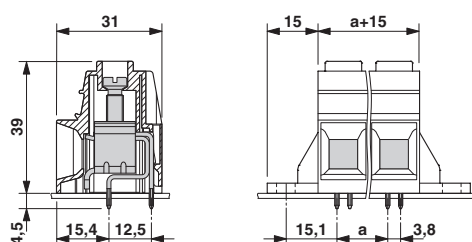


Drilling diagram



Type: MKDSP 25/...-15,00-F BK T20L

Dimensional drawing



Approvals

Approvals

Approvals

IECEE CB Scheme / SEV / VDE Zeichengenehmigung / EAC / cULus Recognized

Ex Approvals

Approval details

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Approvals

IECEE CB Scheme		http://www.iecee.org/	CH-8225
Nominal voltage UN	1000 V		
Nominal current IN	125 A		
mm²/AWG/kcmil	35		

SEV		https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html	IK-3542-M1
Nominal voltage UN	1000 V		
Nominal current IN	125 A		
mm²/AWG/kcmil	35		

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40041859
Nominal voltage UN	1000 V		
Nominal current IN	125 A		
mm²/AWG/kcmil	0.5-35		

EAC		B.01742	
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19770427
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	115 A	115 A	
mm²/AWG/kcmil	20-2	20-2	

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