PCB terminal block - MKDSP 25/ 2-15,00-F - 1932494

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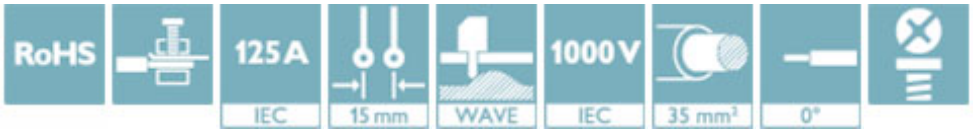
The figure shows a 5-pos. version of the product

PCB terminal block, nominal current: 125 A, nom. voltage: 1000 V, pitch: 15 mm, number of positions: 2, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green. Avoid placing permanent mechanical loads on the terminal

Why buy this product

- 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 STK
GTIN	4 017918 902025
GTIN	4017918902025

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDSP 25/..-F
Pitch	15 mm
Number of positions	2
Connection method	Screw connection with tension sleeve
Drive form screw head	Philipps recess with slotted Torx (H1L)
Screw thread	M5
Mounting type	Wave soldering
Pin layout	Linear pinning

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Technical data

Item properties

Locking	yes
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 mm² ... 35 mm²
Conductor cross section flexible	0.5 mm² ... 35 mm²
Conductor cross section AWG / kcmil	20 ... 2
Conductor cross section flexible, with ferrule without plastic sleeve	1 mm² ... 35 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² ... 35 mm²
2 conductors with same cross section, solid	0.5 mm² ... 6 mm²
2 conductors with same cross section, flexible	0.5 mm² ... 6 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.5 mm² ... 4 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² ... 16 mm²
Stripping length	18 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	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

Housing color	green (6021)

Dimensions for the product

Length [l]	31 mm
Width [w]	60 mm
Height [h]	43.5 mm
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	15 mm
Pin spacing	12.5 mm

Dimensions for PCB design

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Dimensions for PCB design

Hole diameter	1.6 mm
Pin spacing	12.5 mm

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
Comparative tracking index (IEC 60112:2003-01)	CTI 600
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
Minimum clearance - inhomogeneous field (III/3)	8 mm
Minimum clearance - inhomogeneous field (III/2)	8 mm
Minimum clearance - inhomogeneous field (II/2)	8 mm
Minimum creepage distance value (III/3)	12.5 mm
Minimum creepage distance value (III/2)	8 mm
Minimum creepage distance value (II/2)	8 mm

Current carrying capacity / derating curves

Standards and Regulations

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Technical data

Standards and Regulations

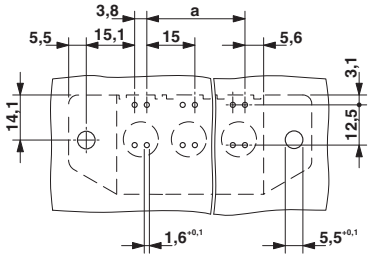
Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

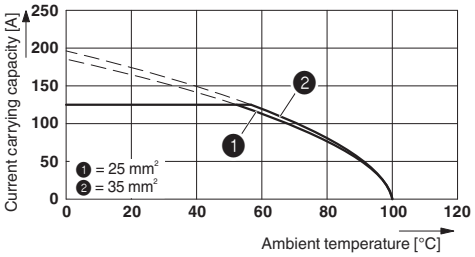
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Drilling diagram

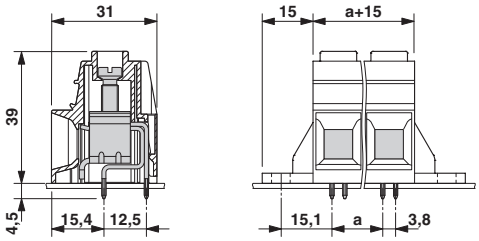


Diagram



Type: MKDSP 25/...-15,00
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

Dimensional drawing



Approvals

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SEV / EAC / cULus Recognized / IECEE CB Scheme / VDE approval of drawings

Ex Approvals

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Approvals

Approval details

SEV  https://www.electrosuisse.ch/en/meta/shop/product-certificates.html IK-3542-M1

mm²/AWG/kcmil	35
Nominal current IN	125 A
Nominal voltage UN	1000 V

EAC  B.01742

cULus Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-19770427

	B	C
mm²/AWG/kcmil	20-2	20-2
Nominal current IN	115 A	115 A
Nominal voltage UN	600 V	600 V

IECEE CB Scheme  http://www.iecee.org/ CH-8225

mm²/AWG/kcmil	35
Nominal current IN	125 A
Nominal voltage UN	1000 V

VDE approval of drawings  http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx 40041859

mm²/AWG/kcmil	0.5-35
Nominal current IN	125 A
Nominal voltage UN	1000 V

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