

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

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PCB terminal block, nominal current: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm<sup>2</sup>, pitch: 15 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.5 mm. Avoid placing permanent mechanical loads on the terminal



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
GTIN	
GTIN	4017918902049

## 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	Philipps recess with slotted Torx (H1L)
Screw thread	M5
Mounting type	Wave soldering
Pin layout	Linear pinning

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

## Technical data

### Item properties

Locking	yes
Number of levels	1
Number of connections	4
Number of potentials	4

### Electrical parameters

Nominal current	125 A
Nom. voltage	1000 V
Rated voltage	1000 V
Rated voltage (III/2)	1000 V
Rated 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

### Connection capacity

Connection method	Screw connection with tension sleeve
pluggable	no
Conductor cross section solid	0.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section AWG / kcmil	20 ... 2
Conductor cross section flexible, with ferrule without plastic sleeve	1 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Stripping length	18 mm
Torque	2.5 Nm ... 4.5 Nm (≤ 25 mm <sup>2</sup> = 2.5 Nm; 35 mm <sup>2</sup> = 4.5 Nm)

### Information on the aluminum conductor

Cross section-torque-form of cable	Cable cross section:35 mm <sup>2</sup> ; Torque:4.5 Nm; Form of cable:round, single-strand, class 1(re)
	Cable cross section:25 mm <sup>2</sup> ; Torque:2.5 Nm; Form of cable:round, single-strand, class 1(re)
	Cable cross section:16 mm <sup>2</sup> ; Torque:2.5 Nm; Form of cable:round, single-strand, class 1(re)
Specification	DIN VDE 0276-603 (VDE 0276-603):2010-03
Note on conductor pretreatment	The following measures are required for durable and reliable contacting of the aluminum conductor: the stripped end of the aluminum conductor must be separated from the oxide layer using a blade, and immediately dipped in non-acid and non-alkali Vaseline. The pretreatment must be repeated when connecting the conductors anew.

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## Technical data

### 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 (5 - 7 µm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)

### Material data - housing

Housing color	green (6021)
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 ]	90 mm
Height [ h ]	43.5 mm
Pitch	15 mm
Height (without solder pin)	39 mm
Solder pin [P]	4.5 mm
Pin spacing	12.5 mm
Pin dimensions	1.2 x 1.2 mm

### 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

### 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
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## Technical data

### Ambient conditions

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

### Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

### Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.5 mm <sup>2</sup> / solid / > 20 N
	0.5 mm <sup>2</sup> / flexible / > 20 N
	35 mm <sup>2</sup> / stranded / > 190 N
	35 mm <sup>2</sup> / flexible / > 190 N

### Mechanical tests according to standard

Test specification	IEC 60947-7-4
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### Electrical tests

Rated current	125 A
Conductor cross section	35 mm <sup>2</sup>
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 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)	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

### Temperature-rise test

Specification	IEC 60947-7-4:2013-08
Result	Test passed
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: MKDSP 25/...-15,00(-F)
Specification	IEC 60947-7-4:2013-08
Number of positions	4

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

## Technical data

### Current carrying capacity / derating curves

Reduction factor	1
Note	Representation based on IEC 60512-5-2:2002-02

### Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h

### Insulation resistance

Specification	IEC 60512-3-1:2002-02
Result	Test passed
Insulation resistance, neighboring positions	> 1 TΩ

### Glow-wire test

Specification	IEC 60695-2-10:2000-10
Result	Test passed
Temperature	850 °C
Time of exposure	5 s

### Alternating climate test

Result	Test passed
Specification	ISO 6988:1985-02
Corrosive stress	KFW 0.2 S/1 cycle

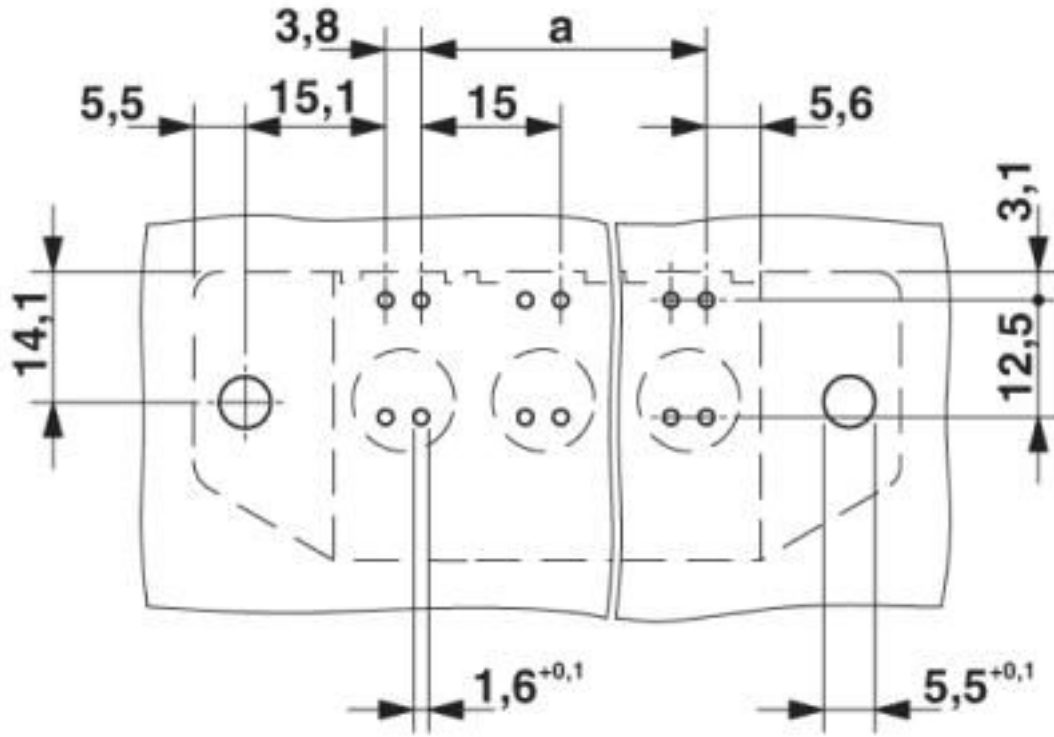
### Environmental Product Compliance

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

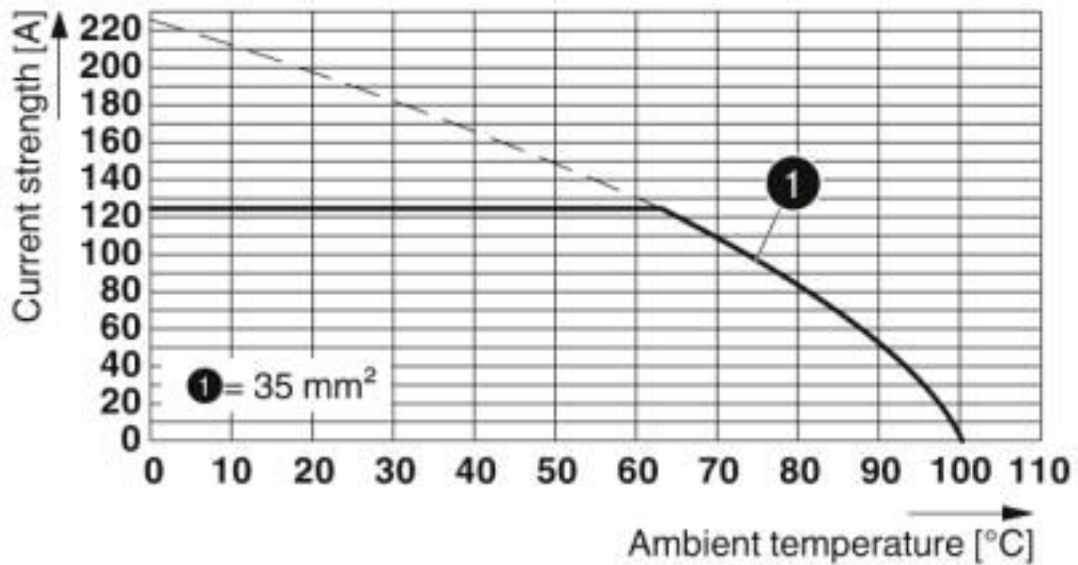
## Drawings

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

Drilling diagram



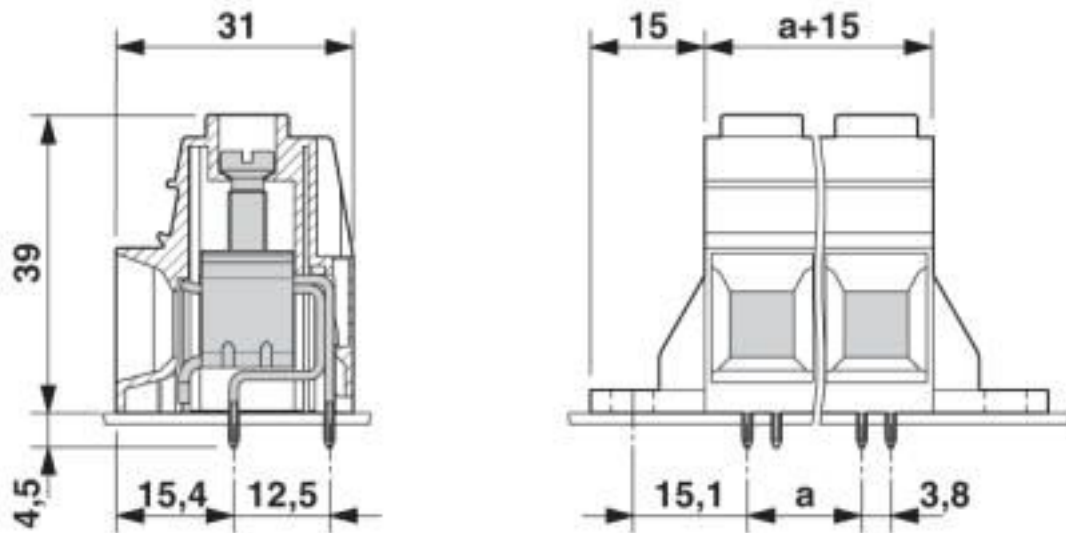
Diagram



Type: MKDSP 25/...-15,00(-F)

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 10.0.1	27440401
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
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	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432

# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

## Classifications

### UNSPSC

UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

## Approvals

### Approvals

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### Approvals


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


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### Ex Approvals

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### Approval details

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	CH-10724-A1
Nominal voltage UN		1000 V	
Nominal current IN		125 A	
mm <sup>2</sup> /AWG/kcmil		35	

SEV		<a href="https://www.eurofins.ch/de/">https://www.eurofins.ch/de/</a>	IK-4486-A1
Nominal voltage UN		1000 V	
Nominal current IN		125 A	
mm <sup>2</sup> /AWG/kcmil		35	

VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40041859
Nominal voltage UN		1000 V	
Nominal current IN		125 A	
mm <sup>2</sup> /AWG/kcmil		0.5-35	



# PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

## Approvals

EAC		B.01687
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-19770427
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	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	115 A	115 A
mm <sup>2</sup> /AWG/kcmil	20-2	20-2

## Accessories

### Accessories

#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



## PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

### Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



### Labeled terminal marker

Zack Marker strip, flat - ZBF 15 CUS - 0825019



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 15 mm, lettering field size: 5.15 x 15.1 mm, Number of individual labels: 5

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### Screwdriver tools

## PCB terminal block - MKDSP 25/ 4-15,00-F - 1932517

### Accessories

Screwdriver - SZS 1,0X6,5 VDE - 1205079



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

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### Terminal marking

Marker strip - SK 10,0 WH:REEL - 0812188



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 10#mm, Number of individual labels: 54000

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Zack Marker strip, flat - ZBF 15:UNBEDRUCKT - 0811202



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 15 mm, lettering field size: 15 x 5.2 mm, Number of individual labels: 5

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### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

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Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

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[30.106](#)