

## PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PCB terminal block, nominal current: 125 A, pitch: 15 mm, number of positions: 7, 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


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
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 017918 902131
GTIN	4017918902131
Weight per Piece (excluding packing)	146.550 g
Custom tariff number	85369010
Country of origin	Slovakia

### Technical data

#### Item properties

Brief article description	PCB terminal block
Range of articles	MKDSP 25
Pitch	15 mm

# PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

## Technical data

### Item properties

Number of positions	7
Connection method	Screw connection with tension sleeve
Screw thread	M5
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1
Number of connections	7
Number of potentials	7

### Electrical parameters

Rated current	125 A
---------------	-------

### Connection capacity

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, stranded, ferrules without plastic sleeve	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with same cross section, stranded, with TWIN ferrules 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 ( $\leq 25 \text{ mm}^2 = 2.5 \text{ Nm}$ ; $35 \text{ mm}^2 = 4.5 \text{ Nm}$ )

### Information on the aluminum conductor

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.

### 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 $\mu\text{m}$ Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 $\mu\text{m}$ Sn)

# PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

## Technical data

### 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 ]	105 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	90 mm

### Dimensions for PCB design

Hole diameter	1.6 mm
---------------	--------

### Packaging information

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

### 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)

### Termination and connection method

Test for conductor damage and slackening	IEC 60998-2-1:1990-04
	Test passed

### Pull-out test

Pull-out test	IEC 60998-2-1:1990-04
	Test passed
Conductor cross section / conductor type / tensile force	0.5 mm <sup>2</sup> / solid / > 30 N

# PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

## Technical data

### Pull-out test

	0.5 mm <sup>2</sup> / flexible / > 30 N
	35 mm <sup>2</sup> / solid / > 190 N
	25 mm <sup>2</sup> / flexible / > 135 N

### Electrical tests

Rated current	125 A
Conductor cross section	35 mm <sup>2</sup>

### Air clearances and creepage distances

Rated insulation voltage (III/3)	1000 V
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

### Vibration test

Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water	Test passed IEC 60998-2-1:1990-04 168 h/100°C 48 h/30 °C/92 %
Test result	Test passed
Test specification	IEC 60998-2-1:1990-04
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

### Resistance to ageing, humidity and penetration of solids

Test result	Test passed
Test specification	IEC 60998-2-1:1990-04
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

### Environmental Product Compliance

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

## Classifications

eCl@ss

eCl@ss 4.1	27141100
------------	----------

# PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

## 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	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

## Approvals


### Approvals

#### Approvals

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

#### Ex Approvals


### Approval details


IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	CH-8225
Nominal voltage UN	1000 V		
Nominal current IN	125 A		

## PCB terminal block - MKDSP 25/ 7-15,00 - 1932630


### Approvals

mm²/AWG/kcmil	35
---------------	----

SEV		<a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a>	IK-3542-M1
Nominal voltage UN	1000 V		
Nominal current IN	125 A		
mm²/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		
mm²/AWG/kcmil	0.5-35		

EAC		B.01742
-----	---	---------

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

### Accessories

Accessories

Insulating sleeve

## PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

### Accessories

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



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



## PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

### Accessories

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

---

### Screwdriver tools

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

---

### Terminal marking

## PCB terminal block - MKDSP 25/ 7-15,00 - 1932630

### Accessories

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

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

### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

Test plugs - MPS-MT - 0201744



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