

## PCB terminal block - MKDSP 95/ 3-20,0-F - 1841872

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: 232 A, nom. voltage: 1000 V, pitch: 20 mm, number of positions: 3, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

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



### Key Commercial Data

Packing unit	5 STK
Minimum order quantity	5 STK
GTIN	 4 046356 920032
GTIN	4046356920032
Weight per Piece (excluding packing)	306.900 g
Custom tariff number	85369010
Country of origin	Slovakia

### Technical data

#### Dimensions

Length [ l ]	44 mm
Pitch	20 mm
Dimension a	40 mm
Width [ w ]	92 mm
Constructional height	69 mm
Height [ h ]	73 mm
Solder pin [P]	4 mm

# PCB terminal block - MKDSP 95/ 3-20,0-F - 1841872

## Technical data

### Dimensions

Pin dimensions	3 x 3 mm
Pin spacing	13.8 mm
Hole diameter	4.8 mm

### General

Range of articles	MKDSP 95/..-F
Insulating material group	I
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	6 kV
Rated voltage (III/3)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	232 A
Nominal cross section	95 mm <sup>2</sup>
Maximum load current	232 A
Insulating material	PA
Solder pin surface	Sn
Flammability rating according to UL 94	V0
Stripping length	25 mm
Number of positions	3
Screw thread	M8
Tightening torque, min	10 Nm

### Connection data

Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section flexible min.	25 mm <sup>2</sup>
Conductor cross section flexible max.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	16 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	16 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	95 mm <sup>2</sup>
Conductor cross section AWG min.	6
Conductor cross section AWG max.	3/0
2 conductors with same cross section, solid min.	16 mm <sup>2</sup>
2 conductors with same cross section, solid max.	25 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	16 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	16 mm <sup>2</sup>

## PCB terminal block - MKDSP 95/ 3-20,0-F - 1841872

### Technical data

#### Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	25 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	16 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	25 mm²

#### Information on the aluminum conductor

Cross section-torque-form of cable	Cable cross section:95 mm²; Torque:10 Nm; Form of cable:sector-shaped, single-strand, class 1, $\alpha = 90^\circ$ (se)
	Cable cross section:50 mm²; Torque:10 Nm; Form of cable:sector-shaped, single-strand, class 1, $\alpha = 90^\circ$ (se)
	Cable cross section:35 mm²; Torque:10 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.

#### Standards and Regulations

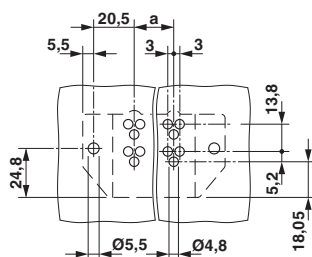
Connection in acc. with standard	EN-VDE
Flammability rating according to UL 94	V0

#### Environmental Product Compliance

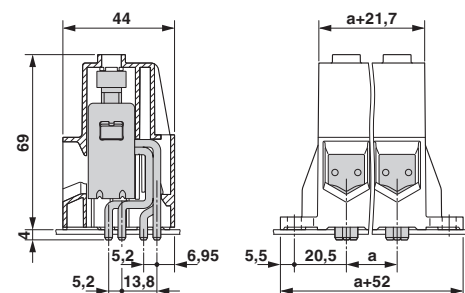
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

Drilling diagram

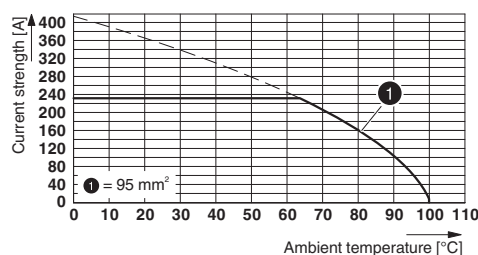


Dimensional drawing



## PCB terminal block - MKDSP 95/ 3-20,0-F - 1841872

Diagram



Type: MKDSP 95/ 4-20,0-F

Tested in accordance with DIN EN 60512-5-2:2003-01

Reduction factor = 1

Number of positions: 4

### Classifications

eCl@ss

eCl@ss 5.1	27141134
eCl@ss 6.0	27141134
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 5.0	EC002643
ETIM 6.0	EC002643

UNSPSC

UNSPSC 13.2	39121432
-------------	----------

### Approvals


Approvals

Approvals

VDE Zeichengenehmigung / IECEx CB Scheme / EAC / cULus Recognized

Ex Approvals


### Approval details

VDE Zeichengenehmigung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40041859
mm²/AWG/kcmil	10-95		


## PCB terminal block - MKDSP 95/ 3-20,0-F - 1841872

### Approvals

Nominal current I <sub>N</sub>	232 A
Nominal voltage U <sub>N</sub>	1000 V

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58414
mm <sup>2</sup> /AWG/kcmil	10-95		
Nominal current I <sub>N</sub>	232 A		
Nominal voltage U <sub>N</sub>	1000 V		

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	
mm <sup>2</sup> /AWG/kcmil	6-3/0	6-3/0	
Nominal current I <sub>N</sub>	200 A	200 A	
Nominal voltage U <sub>N</sub>	600 V	600 V	