

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²

Horizontal connection direction, pitch 10.16/12.7 mm



- High-capacity PCB terminal blocks with a screw connection up to 16 mm² flexible and a current carrying capacity of 76 A
- Individual adjustment of voltage requirements using RZ pitch spacers (MKDS 10 HV)
- MKDSP 10 HV...-12,7 with unrestricted 600-V-UL approval
- Integrated test connection
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

¹⁾ Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Test plug MPS	831
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	
Only for MKDSP 10 HV...-12,7		
	Pitch spacer, width: 2.54 mm RZ-MKDSP 10 HV-2,54 Order No. 1929672	

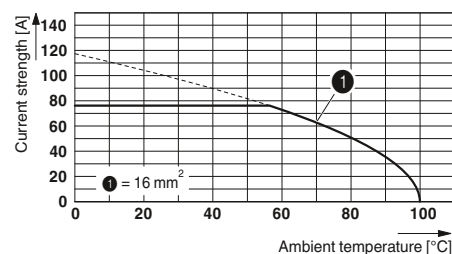
Current carrying capacity curve

Type: MKDSP 10N/...-10,16

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

Reduction factor = 1

No. of positions: 5



Technical data

Technical data in accordance to IEC / DIN VDE

Rated current / conductor cross section [A] / [mm²]

Rated insulation voltage for pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (two conductors with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN ferrule with plastic sleeve [mm²]

Insulation coordination

Surge voltage category / pollution degree

Rated insulation voltage [V]

Rated surge voltage [kV]

Approval data (UL/CUL) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG AWG

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / insulation material group

Inflammability class according to UL 94

Drill hole diameter / pin dimensions [mm]

MKDSP 10N/ ...-10,16

76¹⁾ / 16

1000

10.16

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

690 1000 1000

8 8 6

B C D

300 300 600

60 60 5

20 - 6 20 - 6 20 - 6

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

MKDSP 10HV/ ...-10,16

76¹⁾ / 16

1000

10.16

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

690 1000 1000

8 8 6

B C D

300 300 600

60 60 5

20 - 6 20 - 6 20 - 6

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

MKDSP 10HV/ ...-12,7

76¹⁾ / 16

1000

12.7

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

1000 1000 1000

8 8 6

B C D

600 600 -

60 60 -

20 - 6 20 - 6 -

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

No. of pos. Dim. a [mm]

2 10.16

3 20.32

2 10.16

3 20.32

2 12.70

3 25.40

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10.16 mm pitch, 300 V UL approval



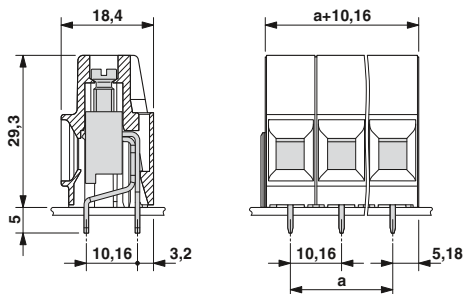
10.16 mm pitch, 300 V UL approval



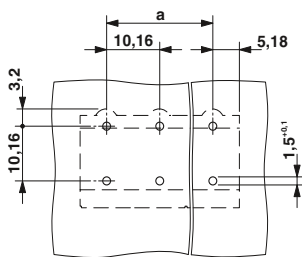
12.7 mm pitch, 600 V UL approval



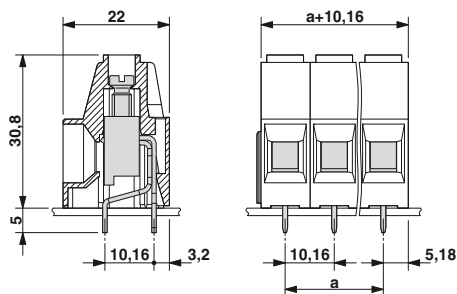
Dimensional drawing



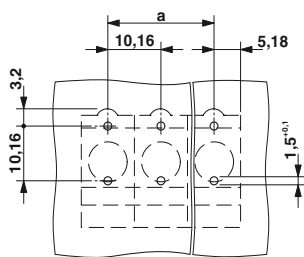
Drilling diagram



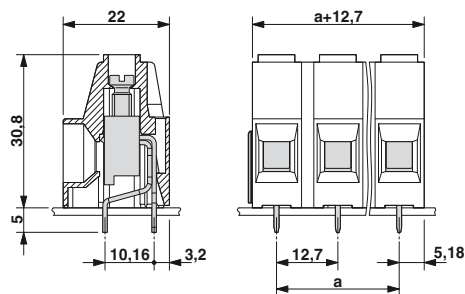
Dimensional drawing



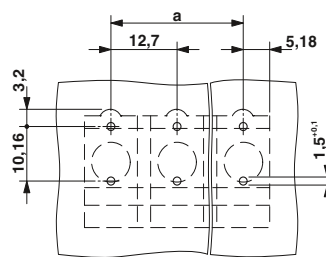
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
MKDSP 10N/ 2-10,16	1773976	50
MKDSP 10N/ 3-10,16	1774137	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
MKDSP 10HV/ 2-10,16	1929517	50
MKDSP 10HV/ 3-10,16	1929520	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 12.7 mm, color: green		
MKDSP 10HV/ 2-12,7	1929533	50
MKDSP 10HV/ 3-12,7	1929546	50