

Multi-position printed circuit termination blocks for through hole reflow applications

With the modern SMT solder technology, proven housing profiles from the printed circuit terminal block range from Phoenix Contact are today also used in the reflow process without any further geometric adaptions. The high-temperature resistant printed circuit terminal blocks have solder pins from the standard range and, compared to surface connections with SMD components, achieve high mechanical stability in combination with through-contacted holes. To cope with the variety of applications, five different types for the pitches 3.5 or 3.81 mm and 5 or 5.08 mm for connection cross sections up to 4 mm² are available.

For automatic mounting, customer-specific tapes with free areas for grippers, for example, or packaging in tube magazines are possible.

High-temperature resistant printed circuit terminal blocks are available as 2 to 3-position versions. Higher numbers of positions can be supplied on request.



COMBICON Select The COMBICON search engine with CAD downloading

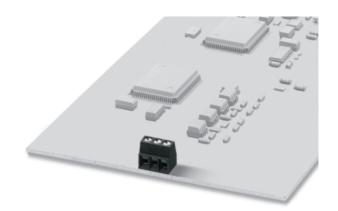


COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

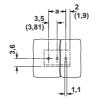
- -Systematic and fast selection of products
- –Universal Internet aided engineering with extensive CAD downloading
- -Easy-to-use e-shopping functions.

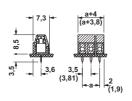
http://select.phoenixcontact.com

MKDS 1/... HT BK 3.5 or 3.81 mm Pitch



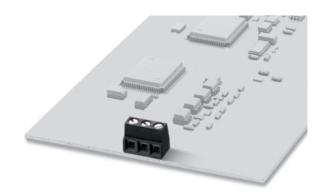
Description	Number of positions	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 3,5 mm pitch, color: black	2 3	3.5 7	MKDS 1/2-3,5 HT BK MKDS 1/3-3,5 HT BK		19 85 80 7 19 84 95 0	50
Printed circuit screw termination blocks, 3.81 mm pitch, color: black	2 3	3.81 7.62	MKDS 1/2-3,81 HT BK MKDS 1/3-3,81 HT BK		19 85 82 3 19 85 83 6	50
(1) Screwdriver, blade: 0.4 x 2.5 x 75 mm, length: 160 mm		~	SZS-0,4 x 2,5		12 05 03 7	10
(2) Marker card , with 14 pcs., 10-section marker strips, white, self-adhesive, for 140 terminal blocks			SK 3,5/2,8 or SK 3,81/2,8 (see COMBICON catalog)			
Technical data						
Dimensions Pitch Hole diameter	r	[mm]	:	descriptio 3.5 / 3.81 1.1	on	
Pin dimensions Technical data in accordance with IEC/ DIN V		ım]x[mm]	-	0.5 x 0.9		
Insulating material group	JL .	_		1		
Surge voltage category / contamination class		-/-	III/3	III / 2	11/2	
Rated voltage		[V]	63	200	200	
Rated surge voltage		[kV]	2.5	2.5	2.5	
Nominal current / cross section		[A]/[mm ²]		10 / 1		
Maximum load current / cross section		[A]/[mm ²]		12 / 1.5		
Connection capacity						
Solid / stranded / conductor sizes	[mm²]/[m	m²]/AWG	0.14 - 1.5			
Stranded with ferrule without / with plastic sleeve		[mm ²]	0.25	5 / 0.25 - 0	0.5	
Multiple connection (2 conductors with same	cross section					
Solid / stranded		[mm ²]	0.14 -	0.5 / 0.14	- 0.2	
Stranded with ferrules without plastic sleeve		[mm²]		-		
Stranded with TWIN ferrule with plastic sleeve		[mm ²]				
Stripping length		[mm]		5		
Internal cylindrical gauge (IEC 60 947-1) Thread				_ М 2		
				N 2 0.22 - 0.25		
Torque Insulating material				PA		
Inflammability class in acc. with UL 94				V0		
minaminability class in acc. with OL 94				VU		



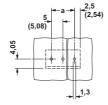


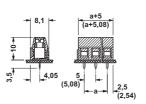
Phoenix Contact page 2 of 6

MKDSN 1,5/...HT BK 5.0 or 5.08 mm Pitch



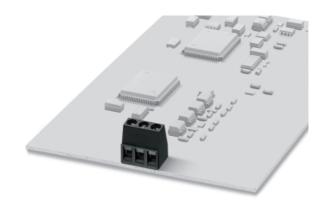
Description	Number of positions	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2	5	MKDSN 1,5/2 HT BK		19 85 84 9	50
5.0 mm pitch, color. black	3	10	MKDSN 1,5/2 HT BK MKDSN 1,5/3 HT BK		19 85 85 2	50
Printed circuit screw termination blocks,						
5.08 mm pitch, color: black	2 3	5.08 10.16	MKDSN 1,5/2-5,08 HT BK MKDSN 1,5/3-5,08 HT BK		19 85 86 5 19 85 87 8	50
(1) Screwdriver,						
blade: 0.6 x 3.5 x 100 mm, length: 180 mm			SZS 0,6 x 3,5		12 05 05 3	10
(2) Marker card , with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 5/3,8 or SK 5,08/3,8 (see COMBICON catalog)			
Technical data						
Dimensions			see de	escription	1	
Pitch		[mm]	5 /	5.08		
Hole diameter		[mm]		1.3		
Pin dimensions		m]x[mm]	0.	5 x 1		
Technical data in accordance with IEC/ DIN VE	E					
Insulating material group		_		I		
Surge voltage category / contamination class		-/-		1/2	II / 2	
Rated voltage		[V]	200	320	320	
Rated surge voltage		[kV]	4	4	4	
Nominal current / cross section		$[A]/[mm^2]$		5 / 1.5		
Maximum load current / cross section		[A]/[mm ²]	13.	5 / 1.5		
Connection capacity						
Solid / stranded / conductor sizes	[mm ²]/[m	m²]/AWG	0.14 - 1.5 / 0.	14 - 1.5 /	26 - 16	
Stranded with ferrule without / with plastic sleeve		[mm²]	0.25 - 1.0	0 / 0.25 -	1.5	
Multiple connection (2 conductors with same	cross sectio	on)				
Solid / stranded		[mm ²]	0.14 - 0.75		0.75	
Stranded with ferrules without plastic sleeve		[mm ²]		5 - 0.5		
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	0	5 - 1		
Stripping length		[mm]		6		
Internal cylindrical gauge (IEC 60 947-1)		_		A 1		
Thread				М 3		
Torque				5 - 0.6		
Insulating material				PA		
Inflammability class in acc. with UL 94				V0		



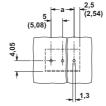


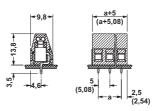
Phoenix Contact page 3 of 6

MKDS 1,5/...HT BK 5.0 or 5.08 mm Pitch



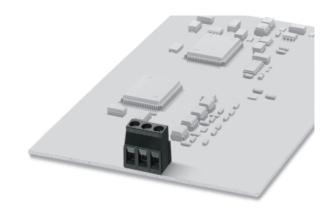
Description	Number of positions	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.
Printed circuit screw termination blocks.	ростоло	[]				
5.0 mm pitch, color: black	2	5 10	MKDS 1,5/2 HT BK MKDS 1,5/3 HT BK		19 85 88 1 19 85 89 4	50
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16	MKDS 1,5/2-5,08 HT BK MKDS 1,5/3-5,08 HT BK		19 85 90 4 19 85 91 7	50
(1) Screwdriver, blade: 0.6 x 3.5 x 100 mm, length: 180 mm		_	SZS 0,6 x 3,5		12 05 05 3	10
(2) Marker card , with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 5/3,8 or SK 5,08/3,8 (see COMBICON catalog)			
Technical data						
Dimensions Pitch Hole diameter		[mm] [mm]	S	ee descriptio 5 / 5.08 1.3	on	
Pin dimensions Technical data in accordance with IEC/ DIN V		nm]x[mm]		0.9 x 0.9		
Insulating material group	DE	_	III / 3	 / 2	II / 2	
Surge voltage category / contamination class Rated voltage		-/- [V]	200 4	320 4	320 4	
Rated surge voltage Nominal current / cross section Maximum load current / cross section		[kV] [A]/[mm²] [A]/[mm²]	4	17.5 / 1.5 24 / 2.5	4	
Connection capacity						
Solid / stranded / conductor sizes Stranded with ferrule without / with plastic sleeve	[mm²]/[m		**** =-	5 / 0.14 - 1.5 5 - 1.5 / 0.25		
Multiple connection (2 conductors with same		[mm²]	0.25	1.5 / 0.25	- 1.5	
Solid / stranded	0.000 000	[mm²]	0.14	1 - 1 / 0.14 -	0.75	
Stranded with ferrules without plastic sleeve		[mm²]		0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		0.5 - 1		
Stripping length		[mm]		7		
Internal cylindrical gauge (IEC 60 947-1)		_		A 1	<u> </u>	
Thread				М 3		
Torque				0.5 - 0.6		
Insulating material				PA		
Inflammability class in acc. with UL 94				V0		



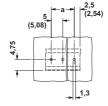


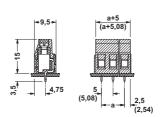
Phoenix Contact page 4 of 6

MKDSN 2,5/...HT BK 5.0 or 5.08 mm Pitch



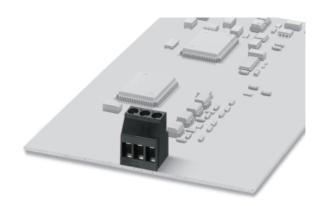
Description	Number of positions	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2 3	5 10	MKDSN 2,5/2 HT BK MKDSN 2,5/3 HT BK		19 85 92 0 19 85 93 3	50
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16	MKDSN 2,5/2-5,08 HT BK MKDSN 2,5/3-5,08 HT BK		19 85 94 6 19 85 95 9	50
(1) Screwdriver, blade: 0.6 x 3.5 x 100 mm, length: 180 mm			SZS 0,6 x 3,5		12 05 05 3	10
(2) Marker card , with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 5/3,8 or SK 5,08/3,8 (see COMBICON catalog)			
Technical data						
Dimensions Pitch Hole diameter		[mm] [mm]	S	ee descriptio 5 / 5.08 1.3	on	
Pin dimensions		nm]x[mm]		0.8 x 0.9		
Technical data in accordance with IEC/ DIN V	DE					
Insulating material group		_	III / O	I	11.70	
Surge voltage category / contamination class Rated voltage		_/_ [V]	III / 3 200	III / 2 320	II / 2 320	
Rated surge voltage		[v] [kV]	200	320 4	320 4	
Nominal current / cross section		[A]/[mm²]	4	16 / 2.5	4	
Maximum load current / cross section		[A]/[mm ²]		16 / 2.5		
Connection capacity		[, ()[,,,,,,,]		10 / 2.0		
Solid / stranded / conductor sizes	[mm²]/[m	m²]/AWG	02-2	5 / 0.2 - 2.5	/ 24 - 14	
Stranded with ferrule without / with plastic sleeve		[mm²]	*-=	- 2.5 / 0.25		
Multiple connection (2 conductors with same						
Solid / stranded		[mm²]	0.2	0.75 / 0.2 -	0.75	
Stranded with ferrules without plastic sleeve		[mm²]		0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		0.5 - 1.5		
Stripping length		[mm]		6.5		
Internal cylindrical gauge (IEC 60 947-1)		_		A 3		
Thread		_		М3		
Torque				0.5 - 0.6		
Insulating material				PA		
Inflammability class in acc. with UL 94				V0		





Phoenix Contact page 5 of 6

MKDS 3/... HT BK 5.0 or 5.08 mm Pitch

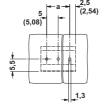


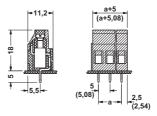
Order No.

Pcs./Pkt.

		Dim.
Description	Number of	а
	positions	[mm]
Printed circuit screw termination blocks,		
5.0 mm pitch, color: black	2	5
	3	10
Printed circuit screw termination blocks,		
5.08 mm pitch, color: black	2	5.08
	3	10.16
(1) Screwdriver,		
blade: 0.6 x 3.5 x 100 mm, length: 180 mm		-
, 3	(SIESTING)	
(2) Marker card, with 12 pcs.,		
10-section marker strips, white,		
self-adhesive, for 120 terminal blocks		
Technical data		
Dimensions		
Pitch		[mm]
Hole diameter		[mm]
Pin dimensions	ſm	m]x[mm]
Technical data in accordance with IEC/ DIN		
Insulating material group		_
Surge voltage category / contamination class		-/-
Rated voltage		[V]
Rated surge voltage		[kV]
Nominal current / cross section	1	A]/[mm²]
Maximum load current / cross section	j	A]/[mm ²]
Connection capacity		
Solid / stranded / conductor sizes	[mm ²]/[mr	n²]/AWG
Stranded with ferrule without / with plastic sleev	/e	[mm ²]
Multiple connection (2 conductors with sam	e cross sectio	n)
Solid / stranded		[mm ²]
Stranded with ferrules without plastic sleeve		[mm ²]
Stranded with TWIN ferrule with plastic sleeve		[mm ²]
Stripping length		[mm]
Internal cylindrical gauge (IEC 60 947-1)		
Thread		
Torque		
Insulating material		
Inflammability class in acc. with UL 94		

MKDS 3/2 HT BK MKDS 3/3 HT BK		19 85 96 2 19 85 97 5	50		
MKDS 3/2-5,08 HT BK MKDS 3/3-5,08 HT BK		19 85 98 8 19 85 99 1	50		
SZS 0,6 x 3,5		12 05 05 3	10		
SK 5/3,8 or SK 5,08/3,8 (see COMBICON catalog)					
	ana dagarinti				
	see description 5 / 5.08	OH			
	1.3				
	0.9 x 0.9				
	I				
III/3	III / 2	II / 2			
200	320	320			
4	4	4			
	24 / 2.5				
	28 / 4				
0.0	4/0.2-2.5/	104 10			
·	4 / 0.2 - 2.5 / 25 - 2.5 / 0.25				
0.2	.5 - 2.5 / 0.25	- 1.5			
0.2 - 1.5 / 0.2 - 1.5					
0.25 - 0.75					
0.5 - 1.5					
7					
	A 3				
M 3					
	0.5 - 0.6				
	PA				
	V0				





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Туре

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