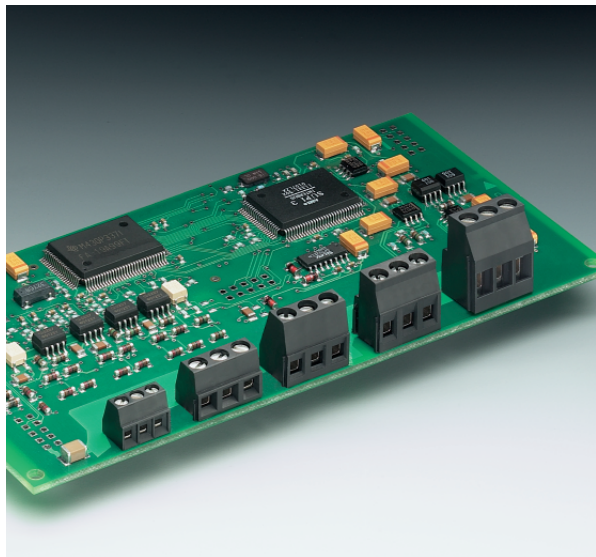


Multi-position printed circuit termination blocks for through hole reflow applications

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 adaptations. 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



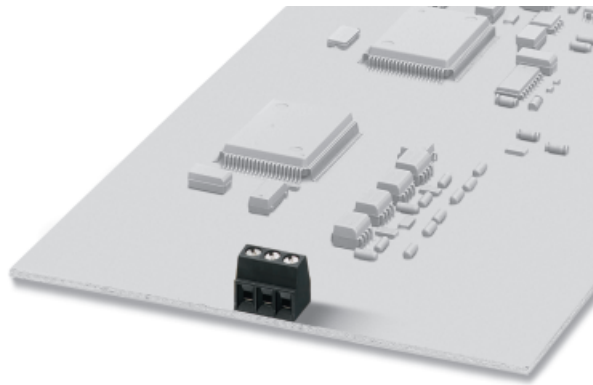
COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:


- 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]
Printed circuit screw termination blocks, 3.5 mm pitch, color: black	2 3	3.5 7
Printed circuit screw termination blocks, 3.81 mm pitch, color: black	2 3	3.81 7.62
(1) Screwdriver , blade: 0.4 x 2.5 x 75 mm, length: 160 mm		

(2) **Marker card**, with 14 pcs.,
10-section marker strips, white,
self-adhesive, for 140 terminal blocks

Technical data

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

Technical data in accordance with IEC/ DIN VDE

Insulating material group	—
Surge voltage category / contamination class	—/—
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length

Internal cylindrical gauge (IEC 60 947-1)

Thread

Torque

Insulating material

Inflammability class in acc. with UL 94

Type	Order No.	Pcs./Pkt.
MKDS 1/2-3,5 HT BK MKDS 1/3-3,5 HT BK	19 85 80 7 19 84 95 0	50
MKDS 1/2-3,81 HT BK MKDS 1/3-3,81 HT BK	19 85 82 3 19 85 83 6	50
SZS-0,4 x 2,5	12 05 03 7	10
SK 3,5/2,8 or SK 3,81/2,8 (see COMBICON catalog)		

see description

3.5 / 3.81

1.1

0.5 x 0.9

	I	
III / 3	III / 2	II / 2
63	200	200
2.5	2.5	2.5
	10 / 1	
	12 / 1.5	
0.14 - 1.5 / 0.14 - 1 / 26 - 16		
0.25 / 0.25 - 0.5		

0.14 - 0.5 / 0.14 - 0.2

—

—

—

5

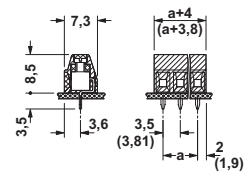
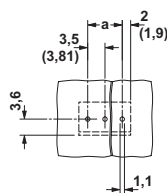
—

M 2

0.22 - 0.25

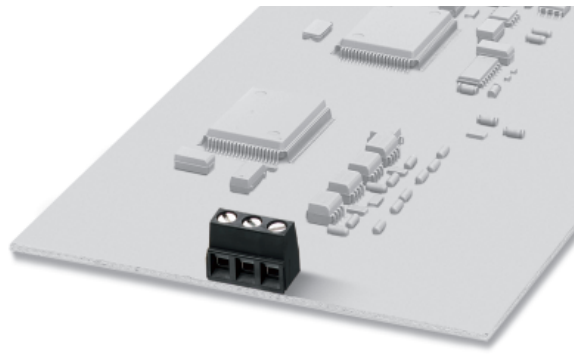
PA


V0



MKDSN 1,5/...HT BK

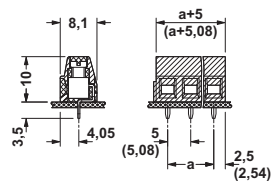
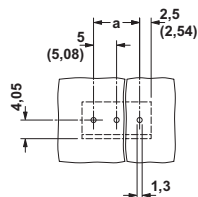
5.0 or 5.08 mm Pitch



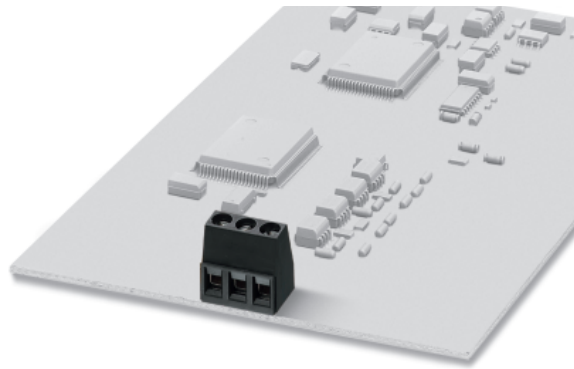
Description	Number of positions	Dim. a [mm]
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2 3	5 10
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16
(1) Screwdriver, blade: 0.6 x 3.5 x 100 mm, length: 180 mm		
		
(2) Marker card, with 12 pcs.,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


Type	Order No.	Pcs./Pkt.
MKDSN 1,5/2 HT BK	19 85 84 9	50
MKDSN 1,5/3 HT BK	19 85 85 2	
MKDSN 1,5/2-5,08 HT BK	19 85 86 5	50
MKDSN 1,5/3-5,08 HT BK	19 85 87 8	
SZS 0,6 x 3,5	12 05 05 3	10
SK 5/3,8 or SK 5,08/3,8 (see COMBICON catalog)		

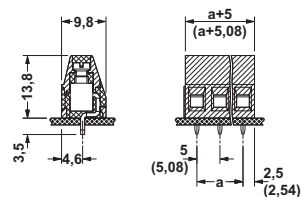
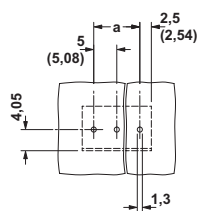
see description		
5 / 5.08		
1.3		
0.5 x 1		
III / 3	I	II / 2
200	320	320
4	4	4
	13.5 / 1.5	
	13.5 / 1.5	
0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
0.25 - 1.0 / 0.25 - 1.5		
0.14 - 0.75 / 0.14 - 0.75		
0.25 - 0.5		
0.5 - 1		
6		
A 1		
M 3		
0.5 - 0.6		
PA		
V0		



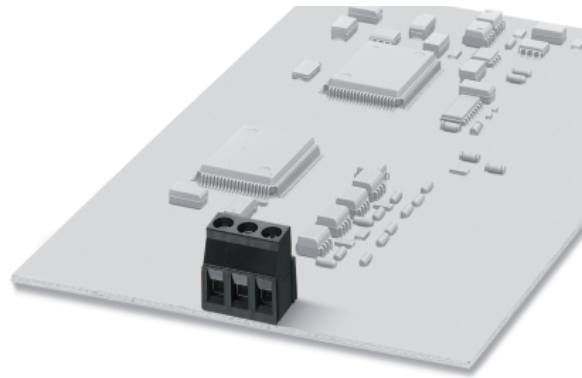
MKDS 1,5/...HT BK 5.0 or 5.08 mm Pitch




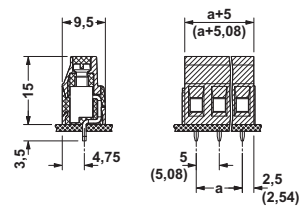
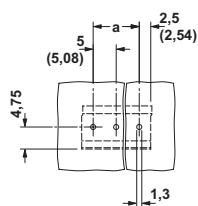
Description	Number of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2 3	5 10	MKDS 1,5/2 HT BK MKDS 1,5/3 HT BK	19 85 88 1 19 85 89 4	50
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16	MKDS 1,5/2-5,08 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			see description		
Pitch		[mm]	5 / 5.08		
Hole diameter		[mm]	1.3		
Pin dimensions		[mm]x[mm]	0.9 x 0.9		
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—	I		
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	200	320	320
Rated surge voltage		[kV]	4	4	4
Nominal current / cross section		[A]/[mm²]	17.5 / 1.5		
Maximum load current / cross section		[A]/[mm²]	24 / 2.5		
Connection capacity					
Solid / stranded / conductor sizes		[mm²]/[mm²]/AWG	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrule without / with plastic sleeve		[mm²]	0.25 - 1.5 / 0.25 - 1.5		
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm²]	0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve		[mm²]	0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve		[mm²]	0.5 - 1		
Stripping length		[mm]	7		
Internal cylindrical gauge (IEC 60 947-1)		—	A 1		
Thread		—	M 3		
Torque		—	0.5 - 0.6		
Insulating material		—	PA		
Inflammability class in acc. with UL 94		—	V0		



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

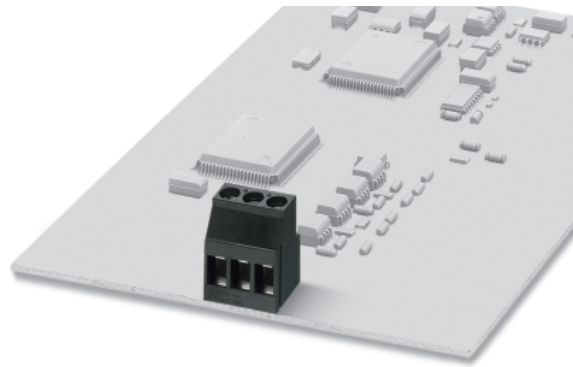



Description	Number of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2 3	5 10	MKDSN 2,5/2 HT BK MKDSN 2,5/3 HT BK	19 85 92 0 19 85 93 3	50
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16	MKDSN 2,5/2-5,08 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			see description		
Pitch		[mm]	5 / 5.08		
Hole diameter		[mm]	1.3		
Pin dimensions		[mm]x[mm]	0.8 x 0.9		
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—		I	
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	200	320	320
Rated surge voltage		[kV]	4	4	4
Nominal current / cross section		[A]/[mm²]		16 / 2.5	
Maximum load current / cross section		[A]/[mm²]		16 / 2.5	
Connection capacity					
Solid / stranded / conductor sizes		[mm²]/[mm²]/AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
Stranded with ferrule without / with plastic sleeve		[mm²]	0.25 - 2.5 / 0.25 - 2.5		
Multiple connection (2 conductors with same cross section)					
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		[mm²]	0.5 - 1.5		
Stripping length		[mm]	6.5		
Internal cylindrical gauge (IEC 60 947-1)		—	A 3		
Thread		—	M 3		
Torque		—	0.5 - 0.6		
Insulating material		—	PA		
Inflammability class in acc. with UL 94		—	V0		



MKDS 3/... HT BK

5.0 or 5.08 mm Pitch



Description	Number of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Printed circuit screw termination blocks, 5.0 mm pitch, color: black	2 3	5 10	MKDS 3/2 HT BK MKDS 3/3 HT BK	19 85 96 2 19 85 97 5	50
Printed circuit screw termination blocks, 5.08 mm pitch, color: black	2 3	5.08 10.16	MKDS 3/2-5,08 HT BK MKDS 3/3-5,08 HT BK	19 85 98 8 19 85 99 1	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 description		
Pitch		[mm]	5 / 5.08		
Hole diameter		[mm]	1.3		
Pin dimensions		[mm]x[mm]	0.9 x 0.9		
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—		I	
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	200	320	320
Rated surge voltage		[kV]	4	4	4
Nominal current / cross section		[A]/[mm²]		24 / 2.5	
Maximum load current / cross section		[A]/[mm²]		28 / 4	
Connection capacity					
Solid / stranded / conductor sizes		[mm²]/[mm²]/AWG	0.2 - 4 / 0.2 - 2.5 / 24 -12		
Stranded with ferrule without / with plastic sleeve		[mm²]	0.25 - 2.5 / 0.25 - 1.5		
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm²]	0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve		[mm²]	0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve		[mm²]	0.5 - 1.5		
Stripping length		[mm]	7		
Internal cylindrical gauge (IEC 60 947-1)		—	A 3		
Thread		—	M 3		
Torque		—	0.5 - 0.6		
Insulating material		—	PA		
Inflammability class in acc. with UL 94		—	V0		

