

High Voltage High Current Feed-Through Terminal Blocks

The new High Voltage Generation of high current feedthrough terminal blocks is specially designed for the requirements of drive technology and power electronics.

In addition to the already familiar simple assembly, the outstanding feature of these terminal blocks is a high nominal voltage of 1000 V. For the conductor cross section range up to 10 mm², there are the horizontal feed-through terminal blocks, HDFK 10-HV and the vertical version, HDFKV 10-HV.

The HDFKV 10-TWIN-HV with a conductor connection on both sides is used to loop through intermediate circuit voltages.

In addition to this, the HV range is rounded off by the molded variant.

The HDFK...-VP-HV terminal blocks are specially designed for the requirements of potted devices, such as filter modules, for example. They are an ideal supplement to the HDFK range for the cross section range of up to 10 mm².

The external parts of the molded high current feedthrough terminal blocks is identical to those of the standard HV versions.

On the inside of the device, however, there is a sealing plate as well as a sponge rubber seal that prevents the molding compound from leaking out. The connection here is soldered.



High Current Feed-Through Terminal Blocks HDFK 10-HV



(IEC)	rigid	flexible		-	U	
[mm ²]	solid	stranded	AWG	[A]	[V]	
Connection data	0.5-16	0.5-10	20-6	76	1000	

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Technical data

Technical data	Туре	Order No.	<u>Pcs.</u> Pkt.			
Feed-through terminal block, for 1 - 4 mm th panels, with internal and external screw conne		HDFK 10-HV	07 09 86 4	50		
fully insulated,	2-pos. 3-pos. AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	EB 2-10 Imax.: 70 A EB 3-10 70 A EB 10-10 70 A	02 03 15 3 02 03 32 8 02 03 13 7	100 10 10		
(2) Screwdriver, for actuating the tension spring		SZS 1,0 x 4,0	12 05 06 6	10		
(3) Zack strip, 10-section,	white	ZB 10:UNPRINTED	10 53 00 1	10		
Dimensions	~	see dimen	sional drawing			
Technical data in accordance with IEC/ DIN	VDE					
Max. cross section with insertion bridge (solid/	10 / 10					
Rated surge voltage / contamination class	[kV] / –	6 / 3				
Surge voltage category / insulation material groups	oup -/-	I	III / I			
Connection capacity						
Stranded with ferrule without / with plastic slee	ve [mm ²]	0.5 - 10 / 0.5 - 10				
Multi-conductor connection (2 cond. with s	,					
Solid / Stranded	[mm ²]	0.5 - 4 / 0.5 - 4				
Stranded with ferrule without plastic sleeve	[mm ²]	0.5 - 2.5				
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 6				
Stripping length	[mm]	11				
Internal cylindrical gauge (IEC 60 947-1)		B 6				
Terminal sleeve: Thread / torque - / [Nm]		M 4 / 1.5 - 1.8				
Insulating material		PA				
Inflammability class in acc. with UL 94			V0			
Approval data (UL and CSA/CUL)						
Nominal voltage / current / conductor sizes	UL: [V] / [A] / AWG		65 / 24 - 6			
C	SA/CUL: [V] / [A] / AWG	600 / 6	65 / 22 - 6			

Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note:

With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.

The HDFK 10-HV can also be connected if turned by 180°.



Phoenix Contact page 2 of 6

High Current Feed-Through Terminal Blocks **HDFKV 10-HV**



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	1 [A]	U [V]	
Connection data	0.5-16	0.5-10	20-6	76	1000	

Technical data

Technical data	Туре	Order No.	<u>Pcs.</u> Pkt.			
Feed-through terminal block, for 1 - 4 mm thick housing panels, with internal and external screw connection	HDFKV 10-HV	07 17 23 8	50			
(1) Insertion bridge¹), fully insul., fully insulated, divisible, fully insulated,2-pos. 3-pos.10-pos.	EB 2-10 I _{max} : 70 A EB 3-10 70 A EB 10-10 70 A	02 03 15 3 02 03 32 8 02 03 13 7	100 10 10			
(2) Screwdriver, for actuating the tension spring	SZS 1,0 x 4,0	12 05 06 6	10			
(3) Zack strip, 10-section, white	ZB 10:UNPRINTED	10 53 00 1	10			
Dimensions	see dimen	sional drawing				
Technical data in accordance with IEC/ DIN VDE						
Max. cross section with insertion bridge (solid/stranded) [mit	n ²] 1	10 / 10				
Rated surge voltage / contamination class [kV]	/-	6/3				
Surge voltage category / insulation material group -						
Connection capacity						
Stranded with ferrule without / with plastic sleeve [mi	n ²] 0.5 - 1	0.5 - 10 / 0.5 - 10				
Multi-conductor connection (2 cond. with same cross section)						
Solid / Stranded [mr		4 / 0.5 - 4				
Stranded with ferrule without plastic sleeve [mit		0.5 - 2.5				
Stranded with TWIN ferrule with plastic sleeve [mit	n ²]0	0.5 - 6				
	im]	11				
Internal cylindrical gauge (IEC 60 947-1)		B 6				
Terminal sleeve: Thread / torque -/ [N						
Insulating material		РА				
Inflammability class in acc. with UL 94		VO				
Approval data (UL and CSA/CUL)						
Nominal voltage / current / conductor sizes UL/CUL: [V] / [A] / AV	VG 600 / 0	65 / 24 - 6				

¹) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note: With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.



Phoenix Contact page 3 of 6

High Current Feed-Through Terminal Blocks **HDFKV 10-TWIN-HV**



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	І [А]	U [V]	
Connection data	0.5-16	0.5-10	20-6	76*	1000	
* The max load cur	rent must no	t he exceede	d by the	total o	current of all connect	ted

nt must not be exceeded by current of all connec conductors.

Technical data

Technical data	Туре	Order No.	<u>Pcs.</u> Pkt.			
Feed-through terminal block, with internal and external screw connection, for 1 - 4 mm thick housing panels, external for vertical conductor connection	HDFKV 10-TWIN-HV	07 17 24 1	50			
(1) Insertion bridge'), fully insul., 2-pos. fully insulated, 3-pos. divisible, fully insulated, 10-pos.	EB 2-10 Imax: 70 A EB 3-10 70 A EB 10-10 70 A	02 03 15 3 02 03 32 8 02 03 13 7	100 10 10			
(2) Screwdriver, for actuating the tension spring	SZS 1,0 x 4,0	12 05 06 6	10			
(3) Zack strip, 10-section, white	ZB 10:UNPRINTED	10 53 00 1	10			
Dimensions	see dime	nsional drawing				
Technical data in accordance with IEC/ DIN VDE						
Max. cross section with insertion bridge (solid/stranded)	[mm ²]	10 / 10				
Rated surge voltage / contamination class [H	(V] / -	6/3				
Surge voltage category / insulation material group	-/-	III / 1				
Connection capacity						
Stranded with ferrule without / with plastic sleeve	[mm ²] 0.5 - 1	0.5 - 10 / 0.5 - 10				
Multi-conductor connection (2 cond. with same cross section	n)					
Solid / Stranded	<u> </u>	4 / 0.5 - 4				
•		0.5 - 2.5				
	· · ·	0.5 - 6				
Stripping length	[mm]	11				
Internal cylindrical gauge (IEC 60 947-1)		B 6				
•	/ [Nm] M 4	/ 1.5 - 1.8				
Insulating material		PA				
Inflammability class in acc. with UL 94		V0				
Approval data (UL and CSA/CUL)						
Nominal voltage / current / conductor sizes UL/CUL: [V] / [A] /	AWG 600 /	65 / 24 - 6				

¹) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note:

With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.



Phoenix Contact page 4 of 6

High Current Feed-Through Terminal Blocks HDFK 10-VP-HV



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	І [А]	U [V]	
Connection data	0.5-16	0.5-10	20-6	76	1000	

Technical data

Technical data	Туре		Order No.	<u>Pcs.</u> Pkt.		
Molded feed-through terminal block, for 1 - 4 mm thick housing panels, with external screw connection, with solder connection and sealing plate inside	HDFK 10-VP-HV		07 17 39 3	50		
(1) Insertion bridge1), fully insul., fully insulated, divisible, fully insulated,2-pos. 3-pos. 	EB 2-10 EB 3-10 EB 10-10	I _{max.} : 70 A 70 A 70 A	02 03 15 3 02 03 32 8 02 03 13 7	100 10 10		
(2) Screwdriver, for actuating the tension spring	SZS 1,0 x 4,0		12 05 06 6	10		
(3) Zack strip, 10-section, white	ZB 10:UNPRINTE	D	10 53 00 1	10		
Dimensions		see dimensional drawing				
Technical data in accordance with IEC/ DIN VDE						
Max. cross section with insertion bridge (solid/stranded) [mm ²]	10 / 10				
Rated surge voltage / contamination class [k	:V] / -	6 / 3				
Surge voltage category / insulation material group	-/-	III / 1				
Connection capacity						
Stranded with ferrule without / with plastic sleeve [mm ²]	0.5 - 10 / 0.5 - 10				
Multi-conductor connection (2 cond. with same cross section	<u>,</u>					
	mm ²]	0.5 - 4 / 0.5 - 4				
Stranded with ferrule without plastic sleeve	mm ²]	0.5 - 2.5				
Stranded with TWIN ferrule with plastic sleeve	mm ²]	0.5 - 6				
Stripping length	[mm]	11				
Internal cylindrical gauge (IEC 60 947-1)			B 6			
Terminal sleeve: Thread / torque - /	[Nm]	M 4 / 1.5 - 1.8				
Insulating material			PA			
Inflammability class in acc. with UL 94			VO			

¹) Finger-safe protection is not guaranteeed when using the insertion bridge externally.



Phoenix Contact page 5 of 6

High Current Feed-Through Terminal Blocks **HDFKV 10-VP-HV**



(IEC)	rigid	flexible		I	U	
[mm ²]	solid	stranded	AWG	[A]	[V]	
Connection data	0.5-16	0.5-10	20-6	76	1000	

Technical data

Technical data			Туре		Order No.	<u>Pcs.</u> Pkt.	
Molded Feed-through terminal blo panels, with external screw connect sealing plate inside			HDFKV 10-VP-HV		07 17 25 4	50	
(1) Insertion bridge1), fully insul.,	2-pos.		EB 2-10	I _{max} : 70 A	02 03 15 3	100	
fully insulated,	3-pos.	88 888 888 888 888 88	EB 3-10	70 A 70 A	02 03 32 8	10 10	
divisible, fully insulated,	10-pos.		EB 10-10	70 A	02 03 13 7	10	
(2) Screwdriver , for actuating the tension spring			SZS 1,0 x 4,0		12 05 06 6	10	
(3) Zack strip, 10-section,	white	TITITI T	ZB 10:UNPRINTED)	10 53 00 1	10	
Dimensions		·~~		see dimens	sional drawing		
Technical data in accordance with	n IEC/ DIN VD						
Max. cross section with insertion brid	dge (solid/stra	anded) [mm ²]	10 / 10				
Rated surge voltage / contamination		[kV] / –	6 / 3				
Surge voltage category / insulation r	material group	-/-		I	11 / 1		
Connection capacity							
Stranded with ferrule without / with p	plastic sleeve	[mm ²]	0.5 - 10 / 0.5 - 10				
Multi-conductor connection (2 co	nd. with sam	e cross section)					
Solid / Stranded		[mm ²]		0.5 - 4	1/0.5-4		
Stranded with ferrule without plastic		[mm ²]	0.5 - 2.5				
Stranded with TWIN ferrule with plas	stic sleeve	[mm ²]		0.	5 - 6		
Stripping length		[mm]			11		
Internal cylindrical gauge (IEC 60	947-1)				B 6		
Terminal sleeve: Thread / torque		– / [Nm]		M 4 /	1.5 - 1.8		
Insulating material					PA		
Inflammability class in acc. with UL	94				V0		
Approval data (UL and CSA/CUL)							
Nominal voltage / current / conducto	or sizes UL	/CUL: [V] / [A] / AWG		600 / 6	65 / 24 - 6		

¹) Finger-safe protection is not guaranteeed when using the insertion bridge externally.



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Phoenix Contact page 6 of 6



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Как с нами связаться

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