

https://www.phoenixcontact.com/in/products/0709796

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Cable lug connection, number of positions: 1, load current: 76 A, cross section: 0.5 mm² - 25 mm², connection direction of the conductor to plug-in direction: 0°, width: 12.1 mm

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Tool-free snap-in principle enables easy mounting on the device panel
- · Automatic panel thickness compensation enables universal use
- · Reliable seal even with low-viscosity molding compounds

Commercial Data

Item number	0709796		
Packing unit	50 pc		
Minimum order quantity	50 pc		
Sales Key	AA1		
Product Key	AA1DAB		
Catalog Page	Page 635 (CC-2009)		
GTIN	4017918153465		
Weight per Piece (including packing)	27.3 g		
Weight per Piece (excluding packing)	26.53 g		
Customs tariff number	85369010		
Country of origin	GR		

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Technical Data

Product properties Product type Panel feed-through terminal block Product family HDFK 16-VP Number of positions 1 Pitch 12.1 mm Number of connections 2 Number of rows 1 Number of potentials 1 Insulation characteristics Overvoltage category Ш Degree of pollution 3 **Electrical properties** Nominal current I_N 76 A Nominal voltage U_N 500 V Degree of pollution 3 Rated voltage (III/3) 500 V Rated surge voltage (III/3) 6 kV Connection data Connection technology

Connector system	HDFK 16
Nominal cross section	16 mm ²

Conductor connection exterior

Conductor connection extension		
Connection method	Screw connection with tension sleeve	
Connection direction of the conductor to plug-in direction	0 °	
Conductor cross section rigid	0.5 mm ² 25 mm ²	
Conductor cross section flexible	0.5 mm² 16 mm²	
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm² 16 mm²	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² 16 mm ²	
2 conductors with same cross section, solid	0.5 mm² 6 mm²	
2 conductors with same cross section, flexible	0.5 mm² 6 mm²	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² 6 mm ²	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²	
Internal cylindrical gage	B7	
Stripping length	16 mm	
Tightening torque	2 Nm 2.3 Nm	

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Conductor connection interior	
Connection method	Cable lug connection
Connection direction of the conductor to plug-in direction	0 °
Material specifications	
Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	tin-plated
Material data - housing	
Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2- 13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C
Material data – actuating element	
Color ()	()

Notes

Safety note	
Safety note	 Only electrically qualified personnel may install and operate the product. To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.
	 The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	 The cable entry funnel is not safe to touch. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch protection.
	 To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.
	☐ There is no electrical contact to the housing. Make sure that protective grounding is provided for green/yellow color variants and articles marked with PE.

Dimensions



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Dimensional drawing	
Pitch	12.1 mm
Width [w]	12.1 mm
Height [h]	40 mm
Length [I]	58 mm
External dimensions	
Width [w]	12.1 mm
Height [h1]	40 mm
Length [I1]	32.3 mm
Internal dimensions	
Height [h2] Length [l2]	26 mm 24.3 mm
Mechanical tests Test for conductor damage and slackening	
Specification	IEC 60947-7-1:2009-04
Result	Test passed
Pull-out test	
Specification	IEC 60947-7-1:2009-04
Conductor cross section/conductor type/tractive force	IEC 60947-7-1:2009-04 0.5 mm ² / solid / > 20 N
Conductor cross section/conductor type/tractive force	0.5 mm² / solid / > 20 N
Conductor cross section/conductor type/tractive force	0.5 mm² / solid / > 20 N 0.5 mm² / flexible / > 20 N
Conductor cross section/conductor type/tractive force	0.5 mm² / solid / > 20 N 0.5 mm² / flexible / > 20 N 25 mm² / stranded / > 135 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm² / solid / > 20 N 0.5 mm² / flexible / > 20 N 25 mm² / stranded / > 135 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm² / solid / > 20 N 0.5 mm² / flexible / > 20 N 25 mm² / stranded / > 135 N

Short-time withstand current

Specification	IEC 60947-7-1:2009-04		
Air clearances and creepage distances 1. Insulation coordination			
Specification	IEC 60947-7-1:2009-04		
Insulating material group	I		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage (III/3)	500 V		
Rated surge voltage (III/3)	6 kV		



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minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 mm

Environmental and real-life conditions

Specification	IEC 60068-2-6:2007-12		
Frequency	10 - 150 - 10 Hz		
Sweep speed	1 octave/min		
Amplitude	0.35 mm (10 Hz 60.1 Hz)		
Sweep speed	5g (60.1 Hz 150 Hz)		
Test duration per axis	2.5 h		
low-wire test			
Specification	IEC 60695-2-11:2014-02		
Temperature	960 °C		
Time of exposure	30 s		
mbient conditions			
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)		
Ambient temperature (storage/transport)	-40 °C 70 °C		
Relative humidity (storage/transport)	30 % 70 %		
Ambient temperature (assembly)	-5 °C 100 °C		

Packaging specifications

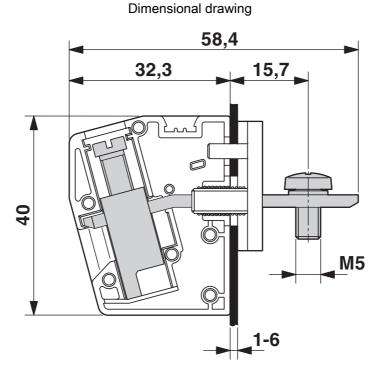
Type of packaging	packed in cardboard

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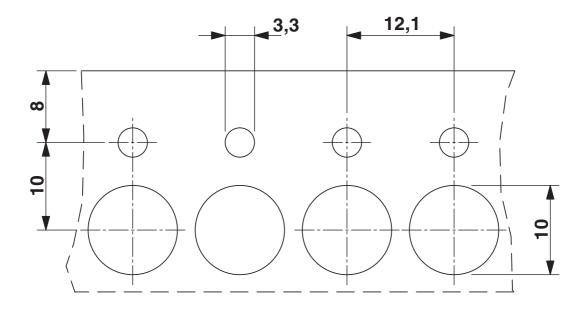
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Drawings



Dimensional drawing

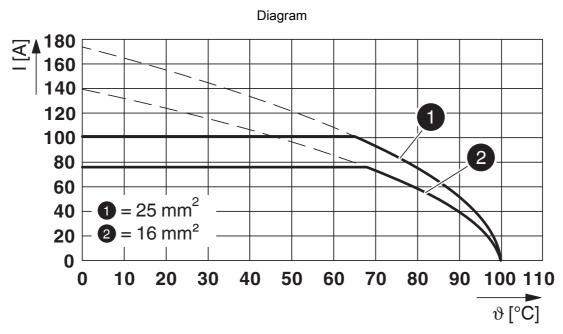


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Type: HDFK 16-VP



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Approvals

New Approval ID: NL-29947				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	500 V	76 A	-	- 16



EAC Approval ID: B.01687

CULus Recog Approval ID: E604	CULus Recognized Approval ID: E60425-19870911					
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²		
	600 V	85 A	20 - 4	-		
	600 V	85 A	20 - 4	-		

KEUR	KEMA-KEUR Approval ID: 2169260.	01			
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		500 V	76 A	-	- 16

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Classifications

ECLASS

ECLASS-13.0 27141134	ECLASS-11.0	27141134
ECLASS 12.0 27141124	ECLASS-13.0	27141134
LGLA35-12.0 27141134	ECLASS-12.0	27141134

ETIM

	ETIM 8.0	EC001283	
UNSPSC			
	UNSPSC 21.0	39121400	

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Environmental Product Compliance

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

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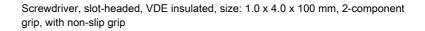
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Accessories

SZS 1,0X4,0 VDE - Screwdriver

1205066 https://www.phoenixcontact.com/in/products/1205066



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