

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

**PHŒNIX** CONTACT

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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 mm<sup>2</sup> - 25 mm<sup>2</sup>, 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<sub>N</sub> 76 A Nominal voltage U<sub>N</sub> 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 <sup>2</sup>

#### 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 <sup>2</sup> 25 mm <sup>2</sup>	
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 <sup>2</sup> 16 mm <sup>2</sup>	
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 <sup>2</sup> 6 mm <sup>2</sup>	
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	<ul> <li>Only electrically qualified personnel may install and operate the product.</li> <li>To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.</li> </ul>
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>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.</li> </ul>
	<ul> <li>To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.</li> </ul>
	☐ 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 <sup>2</sup> / 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

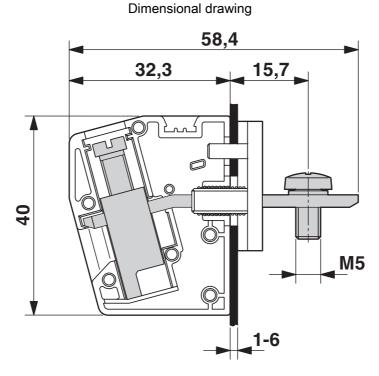
Type of packaging	packed in cardboard

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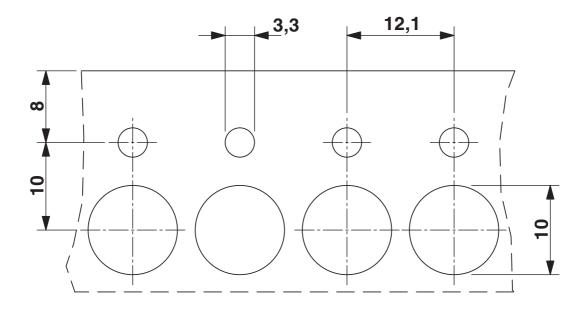
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### Drawings



Dimensional drawing

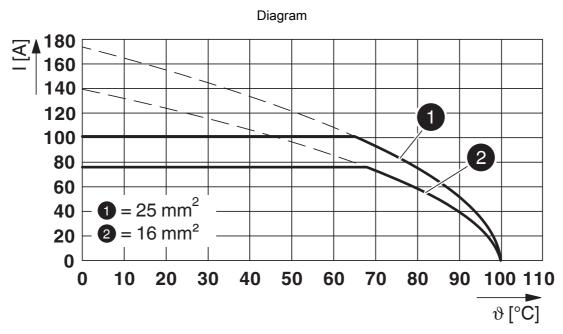


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Type: HDFK 16-VP



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### Approvals

New Approval ID: NL-29947				
	Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
	500 V	76 A	-	- 16



EAC Approval ID: B.01687

CULus Recog Approval ID: E604	CULus Recognized Approval ID: E60425-19870911					
	Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>		
	600 V	85 A	20 - 4	-		
	600 V	85 A	20 - 4	-		

KEUR	<b>KEMA-KEUR</b> Approval ID: 2169260.	01			
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		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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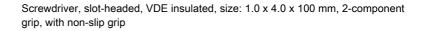
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#### Accessories

SZS 1,0X4,0 VDE - Screwdriver

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



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