

0714147

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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^2 - 25 mm^2 , connection direction of the conductor to plug-in direction: -90 °, width: 12 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	0714147
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA28
Product key	AA1DAE
Catalog page	Page 639 (CC-2009)
GTIN	4046356180238
Weight per piece (including packing)	28.402 g
Weight per piece (excluding packing)	28.402 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	HDFKV 16-VP
Number of positions	1
Pitch	12.1 mm
Number of connections	2
Number of rows	1
Number of potentials	1

Overvoltage category	III
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 mm²

Conductor connection exterior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	-90 °
Conductor cross section rigid	0.5 mm² 25 mm²
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 mm² 16 mm²
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 mm² 6 mm²
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

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

Notes

Safety note

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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	h2 h1
Pitch	12.1 mm
Width [w]	12 mm
External dimensions	
Height [h1]	39.7 mm
Length [I1]	38.1 mm
Internal dimensions	20
Height [h2]	26 mm
Length [l2]	25.53 mm
Mechanical tests	
Test for conductor damage and slackening	
Specification	IEC 60947-7-1:2009-04
Result	Test passed
result	rest passed
Pull-out test	
Specification	IEC 60947-7-1:2009-04
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm² / solid / > 20 N
Setponivactual value	0.5 mm² / flexible / > 20 N
	25 mm² / solid / > 135 N
	16 mm² / flexible / > 100 N
Electrical tests	
Temperature-rise test	
Specification	IEC 60947-7-1:2009-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short-time withstand current	
Specification	IEC 60947-7-1:2009-04
Air clearances and creepage distances 1. Insulation coordination	
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm

6.3 mm

Environmental and real-life conditions

minimum creepage distance (III/3)



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Type of packaging

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
ow-wire test	
Specification	IEC 60695-2-11:2014-02
Temperature	960 °C
Time of exposure	30 s
nbient 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 %
	-5 °C 100 °C

packed in cardboard



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Classifications

ECLASS

	ECLASS-11.0	27141134	
	ECLASS-13.0	27141134	
	ECLASS-12.0	27141134	
ETIM			
	ETIM 9.0	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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