

https://www.phoenixcontact.com/us/products/0705017

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Screw connection with tension sleeve, number of positions: 1, load current: 150 A, cross section: 16 mm^2 - 50 mm², connection direction of the conductor to plug-in direction: 0°, width: 18.8 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

Commercial data

Item number	0705017
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AA28
Product key	AA1FAA
Catalog page	Page 617 (C-1-2013)
GTIN	4017918372743
Weight per piece (including packing)	125.09 g
Weight per piece (excluding packing)	124.65 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 50 Number of positions 1 Pitch 18.8 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 150 A Nominal voltage U_N 690 V Degree of pollution 3 Rated voltage (III/3) 690 V Rated surge voltage (III/3) 8 kV Connection data Connection technology Connector system HDFK 50 Nominal cross section 50 mm² Conductor connection exterior

Conductor connection exterior	
Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	16 mm² 50 mm²
Conductor cross section flexible	16 mm² 50 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	10 mm² 50 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	10 mm² 50 mm²
2 conductors with same cross section, solid	6 mm² 16 mm²
2 conductors with same cross section, flexible	10 mm² 16 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	6 mm² 16 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm² 10 mm²
Internal cylindrical gage	B10
Stripping length	24 mm
Tightening torque	6 Nm 8 Nm

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Conductor connection interior	Conductor	connection	interior
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Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	16 mm² 50 mm²
Conductor cross section flexible	16 mm² 50 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	10 mm ² 50 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	10 mm² 50 mm²
2 conductors with same cross section, solid	6 mm² 16 mm²
2 conductors with same cross section, flexible	10 mm² 16 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	6 mm ² 16 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm ² 10 mm ²
Internal cylindrical gage	B10
Stripping length	24 mm
Tightening torque	6 Nm 8 Nm

Mounting

Plate thickness	1 mm 6 mm
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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 - nousing	
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	
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.

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• Observe the technical data provided here and refer to the documents listed under "Downloads". The download area contains important information, such as installation notes, technical drawings, and 3D data.

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• 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.

• 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

	h2 h1
Pitch	18.8 mm
Width [w]	18.8 mm

Width [w]	18.8 mm
Height [h1]	54 mm
Length [I1]	43 mm
nternal dimensions	
Width [w]	18.8 mm
Width [w] Height [h2]	18.8 mm 55 mm

Electrical tests

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 1.0 mm 6.0 mm
Specification	IEC 60947-7-1:2002-07
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	690 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm

Air clearances and creepage distances | 2. Insulation coordination

Application	Plastic panel 1.0 6.0 mm
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600



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Rated insulation voltage (III/3)	630 V		
Rated surge voltage (III/3)	8 kV		
minimum clearance value - non-homogenous field (III/3)	8 mm		
minimum creepage distance (III/3)	8 mm		
Air clearances and creepage distances 3. Insulation coordination			
Application	Plastic panel 1.0 6.0 mm		
	with DP-HDFK spacer plate		
Specification	IEC 60947-7-1:2002-07		
Insulating material group	1		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage (III/3)	1000 V		
Rated surge voltage (III/3)	8 kV		
minimum clearance value - non-homogenous field (III/3)	8 mm		

Packaging specifications

Type of packaging

packed in cardboard

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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 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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com