

0711218

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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: 150 A, cross section: $16 \text{ mm}^2 - 50 \text{ mm}^2$, connection direction of the conductor to plug-in direction: 0° , width: 18.8 mm, color: gray

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	0711218
Packing unit	10 рс
Minimum order quantity	1 pc
Sales key	AA28
Product key	AA1FAB
Catalog page	Page 619 (C-1-2013)
GTIN	4017918311438
Weight per piece (including packing)	89.97 g
Weight per piece (excluding packing)	80.21 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-VP
Number of positions	1
Pitch	18.8 mm
Number of connections	2
Number of rows	1
Number of potentials	1
Data management status	
Article revision	07
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Nominal current I _N	150 A
Nominal voltage U _N	690 V
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

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

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Tightening torque	6 Nm 8 Nm
Conductor connection interior	
Connection method	Cable lug connection
Connection direction of the conductor to plug-in direction	0 °
terial specifications Naterial 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
/laterial 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

Notes

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Temperature for the ball pressure test according to EN 60695-

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.
	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.
	• 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.

125 °C

Dimensions



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Dimensional drawing	h_2 h_1
Pitch	18.8 mm
Width [w]	18.8 mm
External dimensions	
Height [h1]	54 mm
Length [I1]	43 mm
Internal dimensions	

Height [h2]	37 mm
Length [I2]	35 mm

Electrical tests

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 4.5 mm 6.0 mm
	Internal part molded
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
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	Metal panel 2.0 mm 4.5 mm
	Internal part molded
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	10 mm

Air clearances and creepage distances | 3. Insulation coordination

Application	Metal panel 1.0 mm 2.0 mm
	Internal part molded
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)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
ir clearances and creepage distances 4. Insulation coordination	
Application	Plastic panel 1.0 6.0 mm
	Internal part molded
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
minimum creepage distance (III/3)	12.5 mm
ir clearances and creepage distances 5. Insulation coordination Application	Metal wall 1.0 mm 6.0 mm
Αρμισαιοτ	Internal part not molded
Specification	IEC 60947-7-1:2002-07
Insulating material group	
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
ir clearances and creepage distances 6. Insulation coordination	
Application	Plastic panel 1.0 6.0 mm
	Internal part not molded
Specification	IEC 60947-7-1:2002-07
Insulating material group	
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm

Ambient 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



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Packaging specifications

Type of packaging

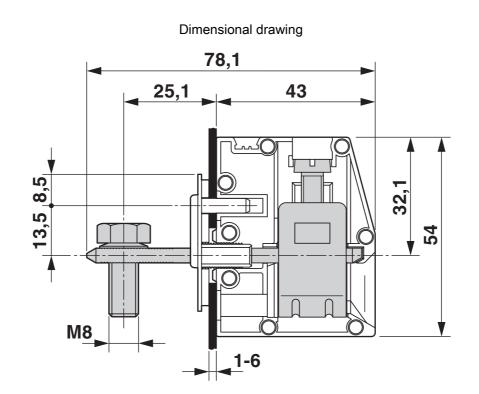
packed in cardboard



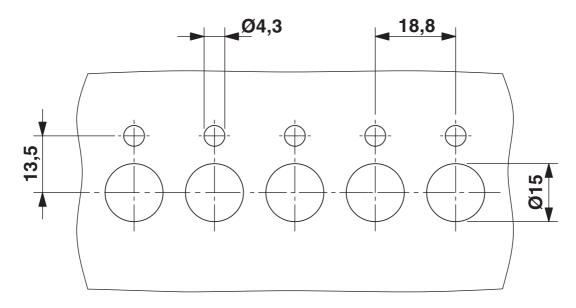
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Drawings



Dimensional drawing





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0711218

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	125 A	6 - 1/0	-
Use group C				
	600 V	125 A	6 - 1/0	-

UL Recognized Approval ID: E60425-19890329				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	170 A	6 - 2/0	-
Use group C				
	600 V	170 A	6 - 2/0	-



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Classifications

ECLASS

ECLASS-13.0 27141134 ECLASS-12.0 27141134	ECLASS-11.0	27141134
ECLASS-12.0 27141134	ECLASS-13.0	27141134
	ECLASS-12.0	27141134

ETIM

	ETIM 9.0	EC001283
UN	ISPSC	
	UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		

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