

0714053

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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: 57 A, cross section: 0.5 mm² - 16 mm², connection direction of the conductor to plug-in direction: -90 °, width: 10.1

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	0714053
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	AA1CAF
Catalog page	Page 629 (CC-2009)
GTIN	4046356180160
Weight per piece (including packing)	21.548 g
Weight per piece (excluding packing)	21.548 g
Country of origin	GR



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Technical data

Product properties

Product type	Panel feed-through terminal block
Product family	HDFKV 10
Number of positions	1
Pitch	10.1 mm
Number of connections	2
Number of rows	1
Number of potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Nominal current I _N	57 A
Nominal voltage U _N	400 V (With metal panels of 1 mm 2.5 mm)
Degree of pollution	3
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV

Connection data

Connection technology

Connector system	HDFK 10
Nominal cross section	10 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 16 mm²
Conductor cross section flexible	0.5 mm² 10 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² 10 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² 10 mm²
2 conductors with same cross section, solid	0.5 mm² 4 mm²
2 conductors with same cross section, flexible	0.5 mm² 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
Internal cylindrical gage	B6
Stripping length	11 mm
Tightening torque	1.5 Nm 1.8 Nm



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Conductor connection interior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	-90 °
Conductor cross section rigid	0.5 mm ² 16 mm ²
Conductor cross section flexible	0.5 mm² 10 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm² 10 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² 10 mm ²
2 conductors with same cross section, solid	0.5 mm² 4 mm²
2 conductors with same cross section, flexible	0.5 mm² 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
Internal cylindrical gage	B6
Stripping length	11 mm
Tightening torque	1.5 Nm 1.8 Nm

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	I
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.
	 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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Application

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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.
imensions	
Dimensional drawing	h2 h1
Pitch	10.1 mm
Width [w]	10.1 mm
External dimensions	
Height [h1]	30.5 mm
Length [I1]	31 mm
Internal dimensions	
Height [h2]	28.5 mm
Length [I2]	18.05 mm
echanical 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	0.5 mm² / solid / > 20 N
setpoint/actual value	0.5 mm² / flexible / > 20 N
	16 mm² / solid / > 100 N
	10 mm² / flexible / > 90 N
ectrical 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	
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Metal wall 1.0 mm ... 2.5 mm



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Specification	IEC 60947-7-1:2009-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Air clearances and creepage distances 2. Insulation coordination	
Application	Metal wall > 2.5 mm 4.0 mm
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	T I
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
Air clearances and creepage distances 3. Insulation coordination	
Application	Plastic wall 1.0 4.0 mm
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	l l
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
minimum creepage distance (III/3)	6.3 mm

Environmental and real-life conditions

Vibration test

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

Glow-wire test

Specification	IEC 60695-2-11:2014-02
Temperature	960 °C
Time of exposure	30 s

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



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	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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Classifications

UNSPSC 21.0

ECLASS

ECLAS	S-11.0	27141134		
ECLAS	S-13.0	27141134		
ECLAS	S-12.0	27141134		
ETIM				
ETIM 9	.0	EC001283		
UNSPSC				

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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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