

0707743

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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: 101 A, cross section: 6 mm² - 35 mm², connection direction of the conductor to plug-in direction: 0 °, width: 15.1 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

### Commercial data

Item number	0707743
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA28
Product key	AA1EAA
Catalog page	Page 630 (CC-2009)
GTIN	4017918004194
Weight per piece (including packing)	67.972 g
Weight per piece (excluding packing)	64.7 g
Customs tariff number	85369010
Country of origin	GR



0707743

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# Technical data

## Product properties

Product type	Panel feed-through terminal block
Product family	HDFK 25
Number of positions	1
Pitch	15.1 mm
Number of connections	2
Number of rows	1
Number of potentials	1
number of potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

## Electrical properties

Nominal current I <sub>N</sub>	101 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 25
Nominal cross section	25 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	6 mm² 35 mm²
Conductor cross section flexible	10 mm² 25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	4 mm² 25 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	4 mm² 25 mm²
2 conductors with same cross section, solid	2.5 mm² 10 mm²
2 conductors with same cross section, flexible	4 mm² 10 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	2.5 mm² 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	2.5 mm <sup>2</sup> 10 mm <sup>2</sup>
Internal cylindrical gage	B8
Stripping length	19 mm
Tightening torque	4 Nm 4.5 Nm



0707743

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#### Conductor connection interior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	6 mm² 35 mm²
Conductor cross section flexible	10 mm² 25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	4 mm² 25 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	4 mm² 25 mm²
2 conductors with same cross section, solid	2.5 mm² 10 mm²
2 conductors with same cross section, flexible	4 mm² 10 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	2.5 mm² 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	2.5 mm² 10 mm²
Internal cylindrical gage	B8
Stripping length	19 mm
Tightening torque	4 Nm 4.5 Nm

## Mounting

Plate thickness	1 mm 6 mm

## 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.



0707743

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	<ul> <li>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.</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>

• 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**

Dimensional drawing	h2 h1
Pitch	15.1 mm
Width [w]	15.1 mm
Height [h]	48.5 mm
External dimensions	
Width [w]	15.1 mm
Height [h1]	48.5 mm
Length [I1]	38.5 mm
Internal dimensions	
Width [w]	15.1 mm
Height [h2]	45 mm
Length [I2]	30 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	6 mm² / solid / > 80 N
setpoint/actual value	10 mm² / flexible / > 90 N
	35 mm² / stranded / > 190 N
	25 mm² / flexible / > 135 N

### Electrical tests

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Temperati	ire-rise	test



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Requirement temperature-rise test	Increase in temperature ≤ 45 K
nort-time withstand current	
Specification	IEC 60947-7-1:2009-04
ir 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)	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
ir 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	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	6 kV 5.5 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
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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# 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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