

## Panel feed-through terminal block - HDFKV 10-VP - 0708946

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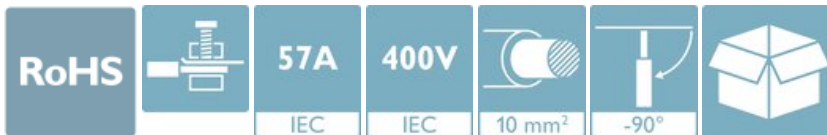


Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Solder connection, number of positions: 1, load current: 57 A, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, connection direction of the conductor to plug-in direction: -90 °, width: 10.1 mm, color: gray


The figure shows a 7-position version

### 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



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 017918 004804
GTIN	4017918004804
Weight per Piece (excluding packing)	13.850 g
Custom tariff number	85369010
Country of origin	Greece

### Technical data

#### Item properties

Brief article description	Panel feed-through terminal block
Range of articles	HDFKV 10-VP

# Panel feed-through terminal block - HDFKV 10-VP - 0708946

## Technical data

### Item properties

Pitch	10.1 mm
Number of positions	1
Number of connections	2
Number of potentials	1

### Electrical parameters

Nominal current	57 A
Nom. voltage	400 V (With metal panels of 1 mm ... 2.5 mm)
Maximum load current	76 A (for 16 mm <sup>2</sup> conductor cross section)
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV

### Connection capacity, external

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

### Connection capacity, internal

Connection method	Solder connection
Connection direction of the conductor to plug-in direction	0 °

### 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

Housing color	gray (7042)
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## Technical data

### Material data - housing

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

### Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [ l ]	49.8 mm
Width [ w ]	10.1 mm
Height [ h ]	30.5 mm
Pitch	10.1 mm

### Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

### General product information

Type of note	Notes on safety
Note	The cable entry funnel is not touch-proof. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch proofness.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

### Termination and connection method

Test for conductor damage and slackening	IEC 60947-7-1:2009-04
	Test passed

### Pull-out test

Pull-out test	IEC 60947-7-1:2009-04
Conductor cross section / conductor type / tensile force	0.5 mm <sup>2</sup> / solid / > 20 N
	0.5 mm <sup>2</sup> / flexible / > 20 N
	16 mm <sup>2</sup> / solid / > 100 N

# Panel feed-through terminal block - HDFKV 10-VP - 0708946

## Technical data

### Pull-out test

	10 mm <sup>2</sup> / flexible / > 90 N
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### Mechanical tests according to standard

Test specification	IEC 60947-7-1
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### Electrical tests

Rated current	57 A
Conductor cross section	10 mm <sup>2</sup>

### Air clearances and creepage distances

Clearances and creepage distances	Metal wall 1.0 mm ... 2.5 mm IEC 60947-1:2007-06 + A1:2010-12
Application	Metal wall 1.0 mm ... 2.5 mm
Specification	IEC 60947-1:2007-06 + A1:2010-12
Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum creepage distance value (III/3)	5.5 mm

### Temperature-rise test

Specification	IEC 60947-7-1:2009-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K

### Current carrying capacity / derating curves

Caption	Type: HDFKV 10-VP
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### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V2
Safety note	<ul style="list-style-type: none"> <li>• 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.</li> <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> <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> <li>• To maintain the nominal voltage, cast the terminals on the inside.</li> </ul>

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)

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## Technical data

### Vibration test

Acceleration	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h

### Glow-wire test

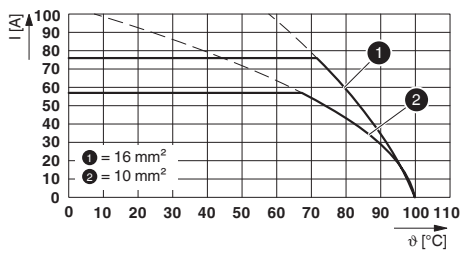
Specification	IEC 60695-2-11:2014-02
Temperature	960 °C
Time of exposure	30 s

### Environmental Product Compliance

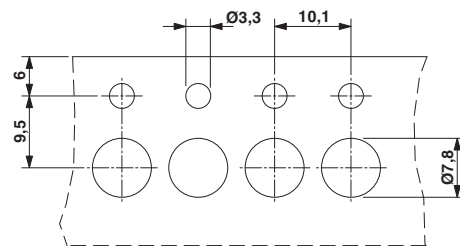
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



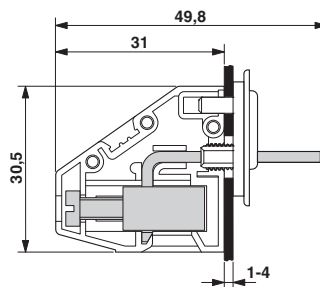
Dimensional drawing



Type: HDFKV 10-VP

Panel feed-through

Dimensional drawing



Side view

# Panel feed-through terminal block - HDFKV 10-VP - 0708946

## Classifications

### eCl@ss

eCl@ss 10.0.1	27141134
eCl@ss 11.0	27141134
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141134
eCl@ss 9.0	27141134

### ETIM

ETIM 2.0	EC001283
ETIM 3.0	EC001283
ETIM 4.0	EC001283
ETIM 6.0	EC001283
ETIM 7.0	EC001283

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals

### Approvals

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#### Approvals

CSA / KEMA-KEUR / IECCE CB Scheme / EAC / cULus Recognized

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### Ex Approvals


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## Approvals


### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
Nominal voltage UN		300 V	
Nominal current IN		65 A	
mm <sup>2</sup> /AWG/kcmil		22-6	

KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	2169260.01
Nominal voltage UN		250 V	
Nominal current IN		57 A	
mm <sup>2</sup> /AWG/kcmil		10	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-29947
Nominal voltage UN		250 V	
Nominal current IN		57 A	
mm <sup>2</sup> /AWG/kcmil		10	

EAC			B.01687
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-19870911
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	65 A	10 A	
mm <sup>2</sup> /AWG/kcmil	24-6	24-6	

## Panel feed-through terminal block - HDFKV 10-VP - 0708946

### Accessories

#### Accessories

#### Insertion bridge

Insertion bridge - EB 2-10 - 0203153



Insertion bridge, pitch: 10 mm, number of positions: 2, color: gray

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Insertion bridge - EB 3-10 - 0203328



Insertion bridge, pitch: 10 mm, number of positions: 3, color: gray

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Insertion bridge - EB 10-10 - 0203137



Insertion bridge, pitch: 10 mm, number of positions: 10, color: gray

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#### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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