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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: 232 A, cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, connection direction of the conductor to plug-in direction: -90 °, width: 25 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	0709547
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	AA1GAD
Catalog page	Page 621 (C-1-2013)
GTIN	4017918117054
Weight per piece (including packing)	268.34 g
Weight per piece (excluding packing)	268.34 g
Customs tariff number	85369010
Country of origin	GR

# HDFKV 95 - Panel feed-through terminal block



0709547

<https://www.phoenixcontact.com/pc/products/0709547>

## Technical data

### Product properties

Product type	Panel feed-through terminal block
Product family	HDFKV 95
Number of positions	1
Pitch	25 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 $I_N$	232 A
Nominal voltage $U_N$	1000 V (With metal panels of 1 mm ... 2.5 mm)
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV

### Connection data

#### Connection technology

Connector system	HDFK 95
Nominal cross section	95 mm <sup>2</sup>

#### Conductor connection exterior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	-90 °
Conductor cross section rigid	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
2 conductors with same cross section, solid	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Internal cylindrical gage	B12
Stripping length	27 mm
Tightening torque	15 Nm ... 20 Nm

#### Conductor connection interior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	-90 °

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Conductor cross section rigid	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
2 conductors with same cross section, solid	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Internal cylindrical gage	B12
Stripping length	27 mm
Tightening torque	15 Nm ... 20 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	<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></ul>
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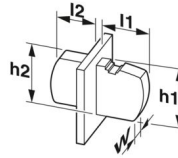
## Dimensions

# HDFKV 95 - Panel feed-through terminal block

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Dimensional drawing



Pitch	25 mm
Width [w]	25 mm
Height [h]	79.5 mm

External dimensions

Width [w]	25 mm
Height [h1]	79.5 mm
Length [l1]	78.7 mm

Internal dimensions

Width [w]	25 mm
Height [h2]	74 mm
Length [l2]	45 mm

## Electrical tests

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 1.0 mm ... 2.5 mm
Insulating material group	I
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

Air clearances and creepage distances | 2. Insulation coordination

Application	Metal panel > 2.5 mm ... 5.0 mm
Insulating material group	I
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 > 5.0 mm ... 6.0 mm
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

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minimum creepage distance (III/3)	8 mm
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## Air clearances and creepage distances | 4. Insulation coordination

Application	Plastic panel 1.0 ... 6.0 mm
Insulating material group	I
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

## Packaging specifications

Type of packaging	packed in cardboard
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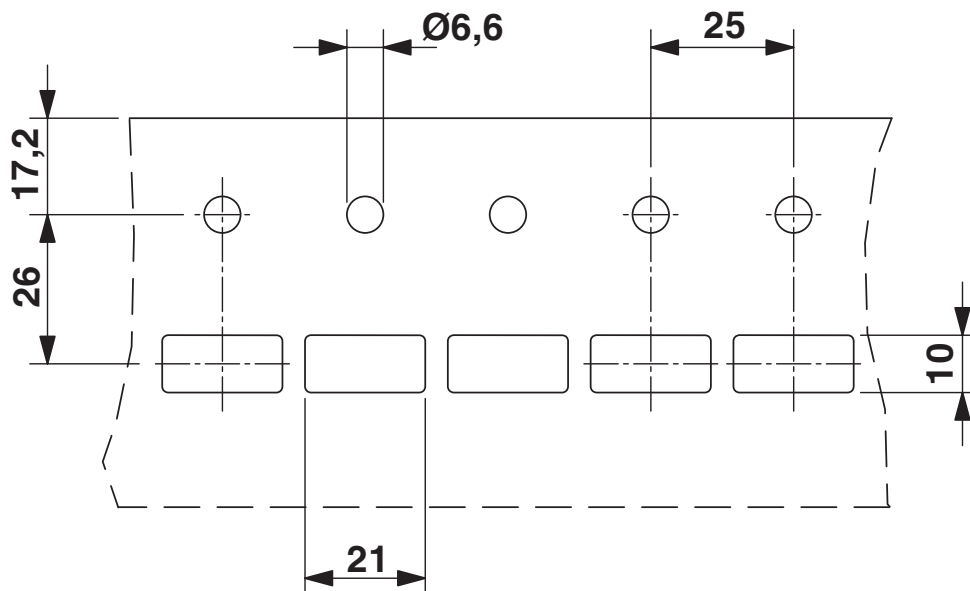
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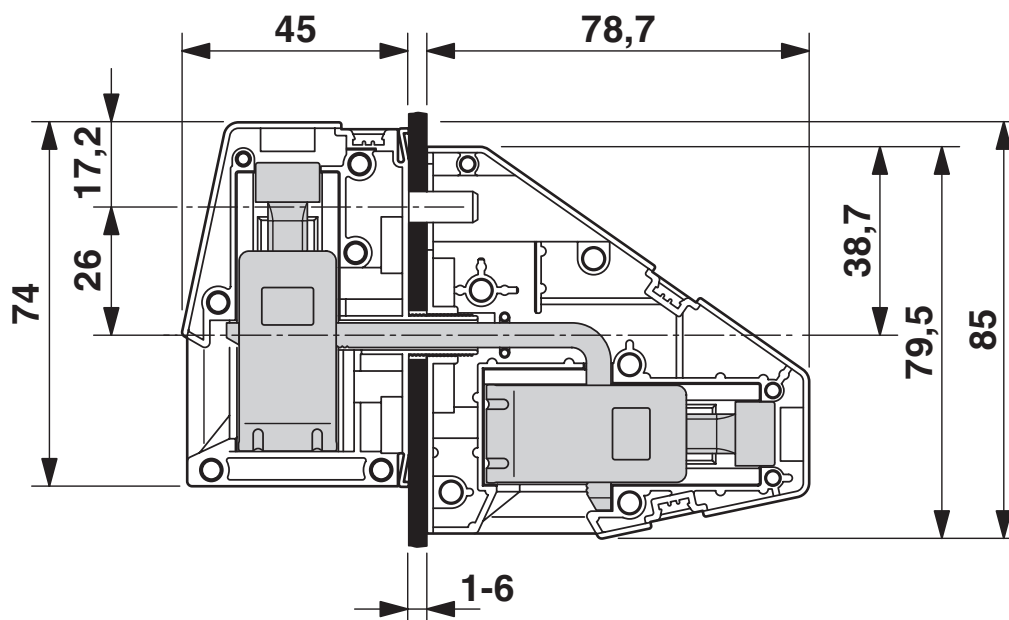
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## Drawings

Dimensional drawing



Dimensional drawing



# HDFKV 95 - Panel feed-through terminal block





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/0709547>

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	600 V	230 A	2 - 4/0	-
Use group C				
	600 V	230 A	2 - 4/0	-

 <b>UL Recognized</b> Approval ID: E60425-19890329				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	600 V	230 A	4 - 4/0	-
Use group C				
	600 V	230 A	4 - 4/0	-

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001283
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### UNSPSC

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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