

# Panel feed-through terminal block - HDFKV 25-TWIN - 0709563

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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 mm<sup>2</sup> - 35 mm<sup>2</sup>, width: 15.1 mm, color: gray

The figure shows a 7-position version

## Your advantages

- ✓ Easy grouping with engagement pin versions
- ✓ Both terminal halves can be easily assembled by simply snapping them together
- ✓ Automatic compensation of the panel thickness via the snap principle integrated in the insulation housing
- ✓ Universal screw connection with screw locking
- ✓ Ideal for looping through power supply cables
- ✓ 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



## Key Commercial Data

Packing unit	25 pc
Minimum order quantity	25 pc
GTIN	
GTIN	4017918117061

## Technical data

### Item properties

Brief article description	Panel feed-through terminal block
Range of articles	HDFKV 25-TWIN
Pitch	15.1 mm
Number of positions	1
Connection method	Screw connection with tension sleeve

# Panel feed-through terminal block - HDFKV 25-TWIN - 0709563

## Technical data

### Item properties

Number of connections	3
Number of potentials	1

### Electrical parameters

Nominal current	101 A
Nom. voltage	500 V
Rated voltage	500 V
Rated surge voltage (III/3)	6 kV

### Connection capacity, external

Connection method	Screw connection with tension sleeve
Conductor cross section solid	6 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section flexible	10 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	4 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	4 mm <sup>2</sup> ... 25 mm <sup>2</sup>
2 conductors with same cross section, solid	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible	4 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
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
Torque	4 Nm ... 4.5 Nm

### Connection capacity, internal

Connection method	Screw connection with tension sleeve
Conductor cross section solid	6 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section flexible	10 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	4 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	4 mm <sup>2</sup> ... 25 mm <sup>2</sup>
2 conductors with same cross section, solid	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible	4 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
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
Torque	4 Nm ... 4.5 Nm

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy

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## Technical data

### Material data - contact

Surface characteristics	tin-plated
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### Material data - housing

Housing color	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

### Dimensions for the product

Width [ w ]	15.1 mm
Height [ h ]	56.4 mm
Pitch	15.1 mm

### Dimensions for mounting cutout

Plate thickness	1 mm ... 6 mm
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### Packaging information

Pieces per package	25
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.

### Electrical tests

Rated current	101 A (the maximum load current must not be exceeded by the total current of the connected conductors)
Conductor cross section	25 mm²

### Air clearances and creepage distances

Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum creepage distance value (III/3)	6.3 mm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0
Safety note	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The

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## Technical data

### Standards and Regulations

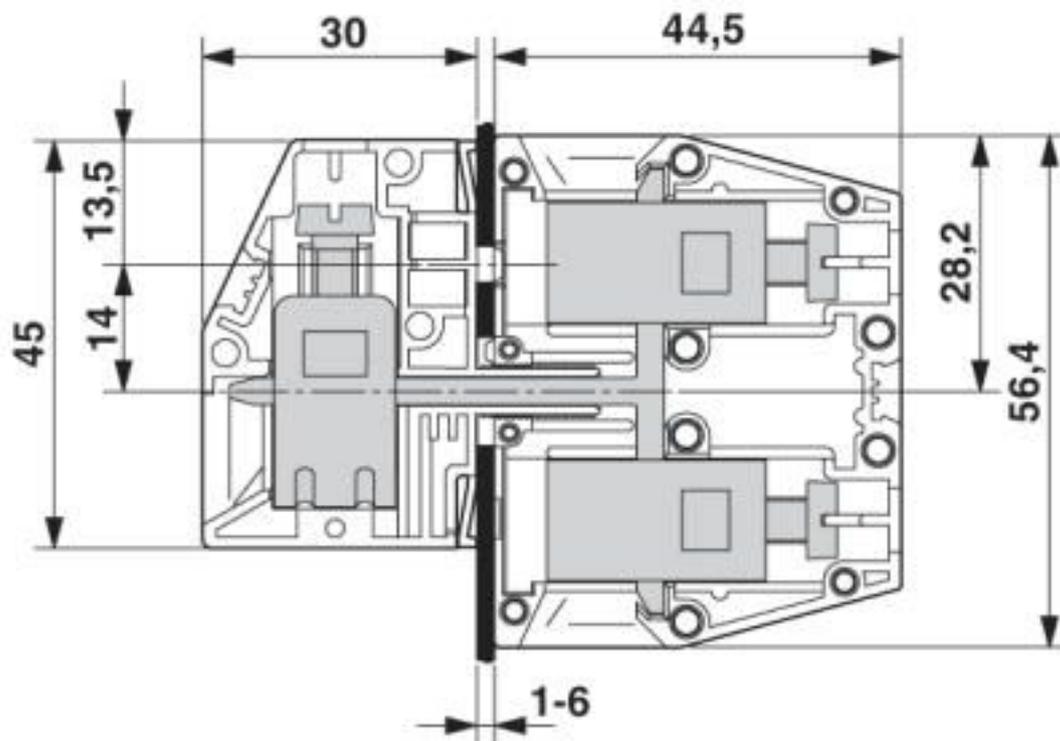
	relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul style="list-style-type: none"> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul style="list-style-type: none"> <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>

### 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"

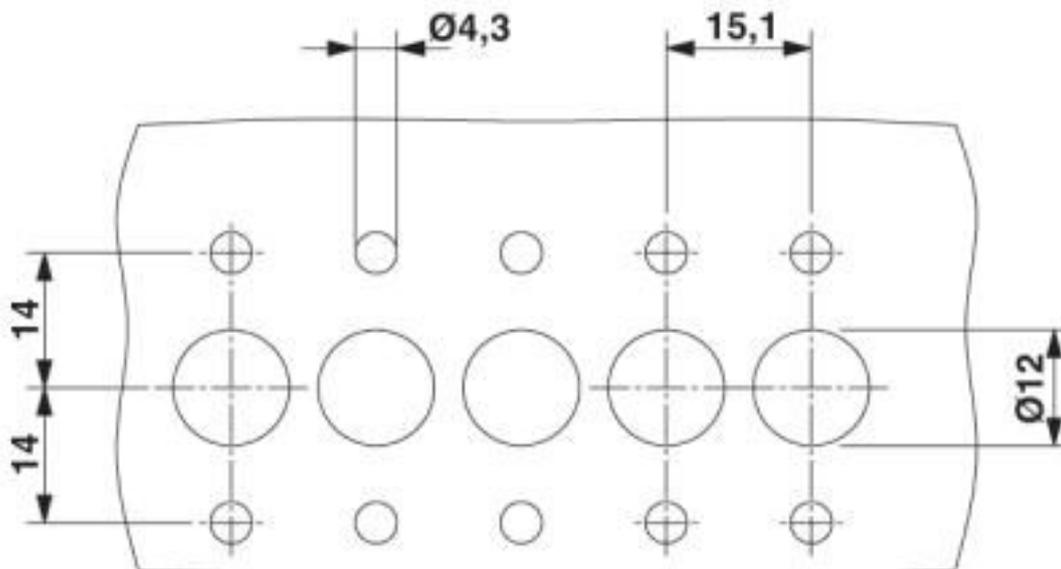
## Drawings

Dimensional drawing



# Panel feed-through terminal block - HDFKV 25-TWIN - 0709563

Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	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 8.0	27141134
eCl@ss 9.0	27141134

ETIM

ETIM 2.0	EC001283
ETIM 3.0	EC001283
ETIM 4.0	EC001283
ETIM 5.0	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

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## Classifications

### UNSPSC

UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / EAC

#### Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	100 A	100 A	
mm <sup>2</sup> /AWG/kcmil	8-2	8-2	

UL 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>	E60425-19890329
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	115 A	115 A	
mm <sup>2</sup> /AWG/kcmil	8-2	8-2	

EAC		B.01687
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## Accessories

### Accessories

Labeled terminal marker

## Panel feed-through terminal block - HDFKV 25-TWIN - 0709563

### Accessories

#### Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

#### Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

#### Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

### 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

### Terminal marking

#### Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

## Panel feed-through terminal block - HDFKV 25-TWIN - 0709563

### Accessories

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

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