Panel feed-through terminal block - HDFK 50-VP/Z - 0711218

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Cable lug connection, number of positions: 1, load current: 150 A, cross section: 16 mm² - 50 mm², connection direction of the conductor to plug-in direction: 0 °, width: 18.8 mm, color: gray

Your advantages

- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Touch-proof insulating housing in a new design
- Molded versions ensure maximum tightness of seal
- Universal screw connection with screw locking
- Automatic compensation of the panel thickness via the snap principle integrated in the insulation housing
- 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	10 pc
Minimum order quantity	10 pc
GTIN	4 017918 311438
GTIN	4017918311438

Technical data

Item properties

Brief article description	Panel feed-through terminal block
Range of articles	HDFK 50-VP
Pitch	18.8 mm
Number of positions	1
Connection method	Screw connection with tension sleeve

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Technical data

Item properties

Number of connections	2
Number of potentials	1

Electrical parameters

Nominal current	150 A
Nom. voltage	690 V
Rated voltage	690 V
Rated surge voltage (III/3)	8 kV

Connection capacity, external

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section solid	16 mm² ... 50 mm²
Conductor cross section flexible	16 mm² ... 50 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	10 mm² ... 50 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	10 mm² ... 50 mm²
2 conductors with same cross section, solid	6 mm² ... 16 mm²
2 conductors with same cross section, flexible	10 mm² ... 16 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	6 mm² ... 16 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	6 mm² ... 10 mm²
Internal cylindrical gage	B10
Stripping length	24 mm
Torque	6 Nm ... 8 Nm

Connection capacity, internal

Connection method	Cable lug connection
Connection direction of the conductor to plug-in direction	0 °
Cable lug connection according to standard	M8 12 Nm 15 Nm

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

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

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Technical data

Material data - housing

Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions for the product

Width [w]	18.8 mm
Height [h]	54 mm
Pitch	18.8 mm

Packaging information

Pieces per package	10
Denomination packing units	Pcs.

General product information

Type of note	Notes on safety
	Note on application
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.
	To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.

Electrical tests

Rated current	150 A
Conductor cross section	50 mm²

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 relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• 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.
	• To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.

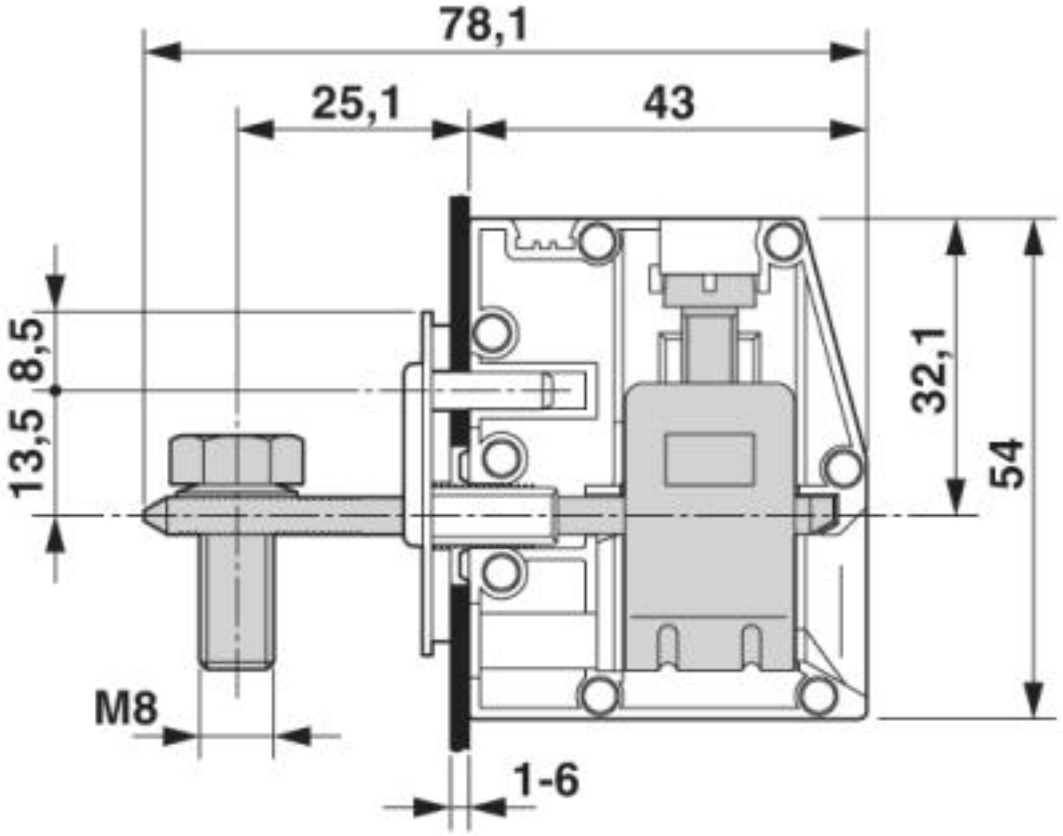
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

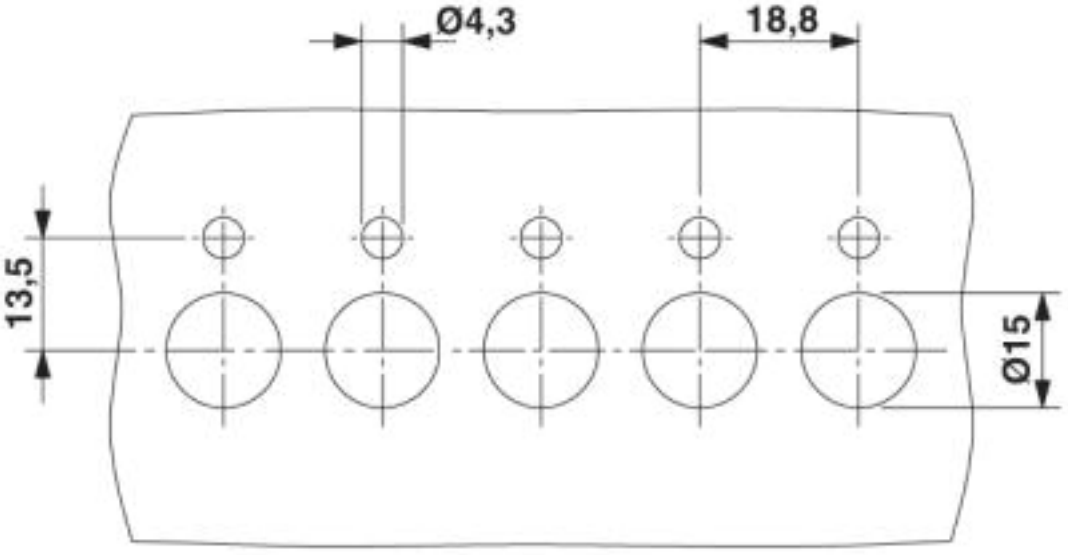
Drawings

Panel feed-through terminal block - HDFK 50-VP/Z - 0711218

Dimensional drawing



Dimensional drawing



Panel feed-through terminal block - HDFK 50-VP/Z - 0711218

Classifications

eCl@ss

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
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

Panel feed-through terminal block - HDFK 50-VP/Z - 0711218

Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	13631

	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	125 A	125 A
mm²/AWG/kcmil	6	6

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19890329

	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	170 A	170 A
mm²/AWG/kcmil	6	6

EAC		B.01687

Accessories

Accessories

Labeled terminal marker

Marker for terminal blocks - UC-TM 16 CUS - 0824621



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

Mounting material

Insertion profile - UKH 50 EP - 3009228



Insertion profile, color: silver

Partition plate

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Accessories

Spacer plate - DP-HDFK 50/7,2 - 0709990



Spacer plate

Screwdriver tools

Screwdriver - SZS 1,2X8,0 VDE - 1205082



Screwdriver, slot-headed, VDE insulated, size: 1.2 x 8.0 x 175 mm, 2-component grip, with non-slip grip

Terminal marking

Marker for terminal blocks - UC-TM 16 - 0819217



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

Zack marker strip - ZB 16:UNPRINTED - 0827461



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: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

Zack marker strip - ZB 16:UNPRINTED - 0827461



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: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

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Accessories

Zack marker strip - ZB 12:UNPRINTED - 0812120



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: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com