Panel feed-through terminal block - HDFK 50-IB GNYE

3026227

https://www.phoenixcontact.com/us/products/3026227

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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: 150 A, cross section: 16 mm^2 - 50 mm^2, connection direction of the conductor to plug-in direction: 0 °, color: green-yellow

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	3026227
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to Order (non-returnable)
Product Key	AA1FAA
GTIN	4017918283063
Weight per Piece (including packing)	126.04 g
Weight per Piece (excluding packing)	126.04 g
Customs tariff number	85369010
Country of origin	GR

Technical Data

Product properties

Product type	Panel feed-through terminal block
Number of positions	1
Pitch	18.8 mm
Number of connections	2
Number of potentials	1

Electrical properties

Nominal current I_N	150 A
Nominal voltage U_N	690 V
Pollution degree	3
Rated voltage (III/3)	690 V
Rated surge voltage (III/3)	8 kV

Connection data

Connection technology

Connector system	HDFK 50
Nominal cross section	50 mm²

Conductor connection exterior

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, flexible, with ferrule without plastic sleeve	6 mm² ... 16 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm² ... 10 mm²
Internal cylindrical gage	B10
Stripping length	24 mm
Torque	6 Nm ... 8 Nm

Conductor connection interior

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	10 mm² ... 50 mm²

sleeve	
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, flexible, with ferrule without plastic sleeve	6 mm² ... 16 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm² ... 10 mm²
Internal cylindrical gage	B10
Stripping length	24 mm
Torque	6 Nm ... 8 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

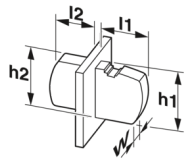
Housing color	green-yellow (6021 / 1018)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature 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.
	• 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.
	• 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.
	☐ 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	
Pitch	18.8 mm

Electrical tests

Air 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)	690 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm

Air 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)	630 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm

Air clearances and creepage distances | 3. Insulation coordination

Application	Plastic panel 1.0 ... 6.0 mm
	with DP-HDFK spacer plate
Specification	IEC 60947-7-1:2002-07
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

Approvals

CSA
Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	600 V	125 A	6 - 1/0	-
Use group C				
	600 V	125 A	6 - 1/0	-

UL Recognized
Approval ID: E60425-19890329

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	600 V	170 A	6 - 2/0	-
Use group C				
	600 V	170 A	6 - 2/0	-

IECEE CB Scheme
Approval ID: NL-29947

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	690 V	150 A	-	- 50

EAC
Approval ID: B.01687

KEMA-KEUR
Approval ID: KEMA jetzt DEKRA

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	690 V	150 A	-	- 50

Classifications

ECLASS

ECLASS-9.0	27141134
ECLASS-10.0.1	27141134
ECLASS-11.0	27141134

ETIM

ETIM 8.0	EC001283

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

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

Accessories

Screw insert

Screw insert - SF-BIT-HEX 5-50 - 1212649

https://www.phoenixcontact.com/us/products/1212649



Screw bit, hexagon, E6.3-1/4" drive, size: Hex 5 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

Tool set

Tool set - SF-LHEX SET - 1212544

https://www.phoenixcontact.com/us/products/1212544



Offset screwdriver set, hex, metric, SW 1.5; 2; 2.5; 3; 4; 5; 6; 8, and 10 mm, with ball head, matt chrome-plated, 9-part, in practical holder

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