Panel feed-through terminal block - HDFK 10A WH (VPE1000) - 0708302

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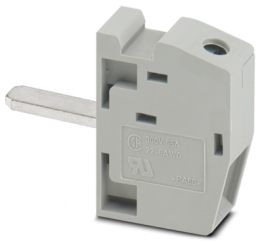


Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Screw connection with tension sleeve, number of positions: 1, load current: 57 A, cross section: 0.5 mm^2 - 16 mm^2, connection direction of the conductor to plug-in direction: 0 °, width: 10.1 mm, color: white

Product Description

External part, with current bar

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

Order Key	0708302
Packing unit	1,000 pc
Minimum order quantity	1,000 pc
Sales Key	AAB
GTIN	4017918197582
Weight per Piece (including packing)	12.1 GRM
Weight per Piece (excluding packing)	12.1 GRM
Customs tariff number	85369010

Technical Data

Electrical tests

Electrical properties

Rated voltage (III/3)	400 V
Rated surge voltage (III/2)	6 kV
Pollution degree	3

Short-time withstand current

Specification	IEC 60947-7-1:2009-04

Temperature-rise test

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

Air clearances and creepage distances | 4. Insulation coordination

Application	Plastic panel with DP-HDFK 10-5,5
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	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
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV
minimum clearance value - non-homogenous field (II/2)	8 mm
minimum creepage distance (II/2)	8 mm

Air clearances and creepage distances | 3. Insulation coordination

Application	Plastic panel
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 mm
Rated insulation voltage (III/2)	500 V
Rated surge voltage (III/2)	6 kV

minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Air clearances and creepage distances | 2. Insulation coordination

Application	Metal wall > 2.5 mm ... 4.0 mm
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	500 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3 mm

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 1.0 mm ... 2.5 mm
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Rated insulation voltage (III/2)	500 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

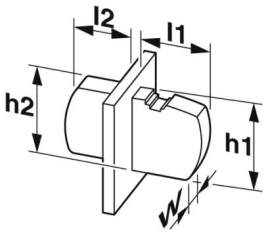
Electrical properties

Contact resistance	
Insulation resistance	
Nominal current I_N	57 A
Nominal current I_N	57 A

Packaging specifications

Type of packaging	packed in cardboard

Dimensions

Dimensional drawing	
Width	10.1 mm
Höhe_innen	31 mm
Länge_innen	24.5 mm
Pitch	10.1 mm

External dimensions

Höhe_aussen	28.5 mm
Länge_aussen	18.1 mm

Environmental and durability tests

Glow-wire test

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

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

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60947-7-1:2009-04
Result	Test passed

Pull-out test

Specification	IEC 60947-7-1:2009-04
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm^2 / solid / > 20 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm^2 / flexible / > 20 N
Conductor cross section/conductor type/tractive force setpoint/actual value	16 mm^2 / solid / > 100 N
Conductor cross section/conductor type/tractive force setpoint/actual value	10 mm^2 / flexible / > 90 N

Notes

Environmental Product Compliance

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

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.
Safety note	• 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.
Safety note	• 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.
Safety note	☐ There is no electrical contact to the housing. Ensure protective grounding is established for green-yellow color versions.

Connection data

Connection technology

Nominal cross section	10 mm^2

Conductor connection exterior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section solid	0.5 mm^2 ... 16 mm^2
Conductor cross section flexible	0.5 mm^2 ... 10 mm^2
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm^2 ... 10 mm^2
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm^2 ... 10 mm^2
2 conductors with same cross section, solid	0.5 mm^2 ... 4 mm^2
2 conductors with same cross section, flexible	0.5 mm^2 ... 4 mm^2

2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm^2 ... 2.5 mm^2
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm^2 ... 6 mm^2
Internal cylindrical gage	B6
Stripping length	10 mm
Torque	1.5 Nm ... 1.8 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	0.5 mm^2 ... 16 mm^2
Conductor cross section flexible	0.5 mm^2 ... 10 mm^2
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm^2 ... 10 mm^2
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm^2 ... 10 mm^2
2 conductors with same cross section, solid	0.5 mm^2 ... 4 mm^2
2 conductors with same cross section, flexible	0.5 mm^2 ... 4 mm^2
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm^2 ... 2.5 mm^2
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm^2 ... 6 mm^2
Internal cylindrical gage	B6
Stripping length	10 mm
Torque	1.5 Nm ... 1.8 Nm

Material specifications

Material data - housing

Housing color	white (9010)
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

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

Product properties

Number of positions	1
Number of connections	2
Number of potentials	1

Approvals

CSA

Nominal voltage U_N	300 V
Nominal current I_N	65 A
AWG/kcmil	22-6
Min. cross section	22 mm²
Max. cross section	6 mm²

EAC

cULus Recognized

Usegroup	B	C	D
Nominal voltage U_N	300 V	150 V	300 V
Nominal current I_N	65 A	65 A	10 A
AWG/kcmil	22-6	22-6	22-6
Min. cross section	24 mm²	24 mm²	24 mm²
Max. cross section	6 mm²	6 mm²	6 mm²

Accessories

Screwdriver tools

Screwdriver tools - 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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