

0708739

https://www.phoenixcontact.com/in/products/0708739

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



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 mm² - 50 mm², connection direction of the conductor to plug-in direction: 0 °, width: 18.8 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	0708739
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	AA1
Product Key	AA1FAA
Catalog Page	Page 617 (C-1-2013)
GTIN	4017918004750
Weight per Piece (including packing)	126.38 g
Weight per Piece (excluding packing)	126.38 g
Customs tariff number	85369010
Country of origin	GR



0708739

https://www.phoenixcontact.com/in/products/0708739

Technical Data

Product properties

Product type	Panel feed-through terminal block
Product family	HDFK 50
Number of positions	1
Pitch	18.8 mm
Number of connections	2
Number of rows	1
Number of potentials	1

Overvoltage category	III
Degree of pollution	3

Electrical properties

Nominal current I _N	150 A
Nominal voltage U _N	690 V
Degree of pollution	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 rigid	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
Tightening torque	6 Nm 8 Nm



0708739

https://www.phoenixcontact.com/in/products/0708739

Conductor connection interior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	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 mm ² 10 mm ²
Internal cylindrical gage	B10
Stripping length	24 mm
Tightening torque	6 Nm 8 Nm

Mounting

Plate thickness	1 mm 6 mm

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

Material data - actuating element

Color ()	()
----------	----

Notes

Safety note



0708739

https://www.phoenixcontact.com/in/products/0708739

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
Width [w]	18.8 mm
External dimensions	
Width [w]	18.8 mm
Height [h1]	54 mm
Length [I1]	43 mm
Internal dimensions	
Width [w]	18.8 mm
Height [h2]	55 mm
Length [I2]	35 mm

Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	Metal wall 4 mm
Test force setpoint	10 N
Result	Test passed

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



0708739

https://www.phoenixcontact.com/in/products/0708739

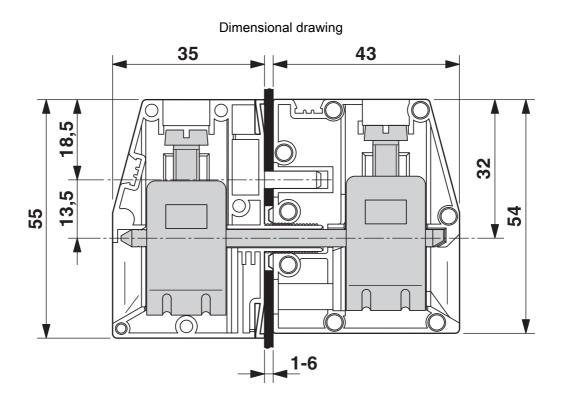
Insulating material group	I.
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	690 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm
Air clearances and creepage distances 2. Insulation coordination	
Application	Plastic panel 1.0 6.0 mm
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
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	1
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
Surge voltage test	
Result	Test passed
Tomporature rice test	
Temperature-rise test Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Result	Test passed
roodit	Tool passed
Power-frequency withstand voltage	
Result	Test passed
Environmental and real-life conditions	
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Packaging specifications	
	nealed in seathered
Type of packaging	packed in cardboard



0708739

https://www.phoenixcontact.com/in/products/0708739

Drawings





0708739

https://www.phoenixcontact.com/in/products/0708739

Approvals

CSA Approval ID: 13631				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	600 V	125 A	6 - 1/0	-
	600 V	125 A	6 - 1/0	-

71	UL Recognized Approval ID: E60425-19	890329			
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	170 A	6 - 2/0	-
		600 V	170 A	6 - 2/0	-

CB scheme	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

rn:	EAC Approval ID: B.01687		
-----	--------------------------	--	--

KEWA	KEMA-KEUR Approval ID: 2169260.0	1			
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		690 V	150 A	-	- 50



0708739

https://www.phoenixcontact.com/in/products/0708739

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27141134
ECLASS-13.0	27141134
ECLASS-12.0	27141134
ETIM	
ETIM 8.0	EC001283
UNSPSC	

39121400



0708739

https://www.phoenixcontact.com/in/products/0708739

Environmental Product Compliance

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



0708739

https://www.phoenixcontact.com/in/products/0708739

Accessories

SZS 1,2X8,0 VDE - Screwdriver

1205082

https://www.phoenixcontact.com/in/products/1205082



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

UKH 50 EP - Insertion profile

3009228

https://www.phoenixcontact.com/in/products/3009228

Insertion profile, color: silver





0708739

https://www.phoenixcontact.com/in/products/0708739

UC-TM 16 - Marker for terminal blocks

0819217

https://www.phoenixcontact.com/in/products/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: snapped, for terminal block width: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

UC-TM 16 CUS - Marker for terminal blocks

0824621

https://www.phoenixcontact.com/in/products/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: 15.45×10.5 mm, Number of individual labels: 32



0708739

https://www.phoenixcontact.com/in/products/0708739

ZB 16:UNPRINTED - Zack marker strip

0827461

https://www.phoenixcontact.com/in/products/0827461



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

ZBF 16 CUS - Zack Marker strip, flat

0827465

https://www.phoenixcontact.com/in/products/0827465



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 5.15 x 16 mm, Number of individual labels: 5



0708739

https://www.phoenixcontact.com/in/products/0708739

ZB 12:UNPRINTED - Zack marker strip

0812120

https://www.phoenixcontact.com/in/products/0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in