HC-1/2M-UT-F-6-PE - Contact insert module

1424438

https://www.phoenixcontact.com/us/products/1424438

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Contact insert module, Socket, Screw connection, 0.5 mm^2 ... 6 mm^2, application: PE transmission, for housing size HC-EVO-M1

Commercial data

Item number	1424438
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626372570
Weight per piece (including packing)	20.15 g
Weight per piece (excluding packing)	18.85 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For HEAVYCON housing type HC-EVO-M1
General	Connectors may be operated only when there is no load/voltage.

Product properties

Product type	Modular contact insert
Series	HC-EVO-M1
Application	PE transmission
Number of positions	1
Contact material type	turned

Connection data

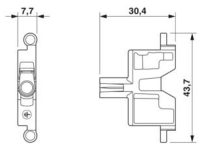
Connection technology

Connection technology	Screw connection

Conductor connection

Conductor cross-section	0.5 mm² ... 6 mm²
Connection cross section AWG	20 ... 10
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)

Dimensions

Dimensional drawing	
Width	30.6 mm
Height	43.7 mm
Length	7.7 mm
Drill hole distance, horizontal	30.6 mm

Mechanical characteristics

Contact diameter	4 mm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0

Contact carrier material	Die-cast zinc alloy

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C

Service life test group

Specification	IEC 61984:2008-10 (following)
	IEC 60512-1-1:2002-02
	IEC 60512-4-1:2003-05
	IEC 60512-9-1:2010-03
Requirements, dielectric strength	There must be no electrical flashovers or disruptive charges for the duration of the test. The maximum permissible leakage current must not be exceeded.
Requirements, visual check	No damage that can affect the intended use.
No. of cycles	500

Climatic test group

Specification	IEC 61984:2008-10
	IEC 60512-11-10:2002-02
	IEC 60512-11-9:2002-02
	IEC 60512-11-7:2003-05
Requirements, visual check	No defects that impair normal functionality.
Cold stress	-40 °C/2 h
Thermal stress	125 °C/168 h
Corrosive stress	0,2 dm^3 SO_2 / 40 °C ±ـــر °C / 24 h / 2 cycles

Shock

Specification	IEC 60068-2-27:2008-02
Contact disturbance requirement	Duration of the disturbance: max. 1 µs
Requirements, visual check	No defects that impair normal functionality.
Acceleration	30g
Test directions	X-, Y- and Z-axis (pos. and neg.)
Pulse shape	Half-sine
Number of shocks per direction	3
Shock duration	18 ms

Vibration, broadband noise

Specification	IEC 61373:2010-05
Contact disturbance requirement	Duration of the disturbance: max. 1 µs
Requirements, Contact resistance	The contact resistance must not increase by more than 50% of the reference value or ≤ 5 mΩ. The higher value applies.
Requirements, visual check	No damage that can affect the intended use.
Test duration	5 h per axis
Lowest frequency	5 Hz

Highest frequency	150 Hz
Test directions	X-, Y- and Z-axis
Category	1
Class	B

Mechanical tests

Specification	IEC 60512-1-1:2002-02
Requirements, visual check	No defects that impair normal functionality.
Additional text	The values specified apply to all repetitions of the same test within the normative test sequence.

Dimensional examination

Specification	IEC 60512-1-2:2002-02
Requirements	All individual parts have been approved for the current revision status.

Durability of marking

Specification	IEC 60068-2-70:1995-12
Requirements	Inscriptions must be legible after the test.

Polarization and coding

Specification	IEC 61984:2008-10
Requirements	No damage that can impair normal functionality. Connectors must only be able to be plugged in when they are in the correct position and combination. The design must prevent mismatching. Polarization prevents incorrect electrical contact.

Contact retention in insert

Specification	IEC 60512-15-1:2008-05
Requirements	No axial offset should occur that can affect functions.

Rough handling shocks

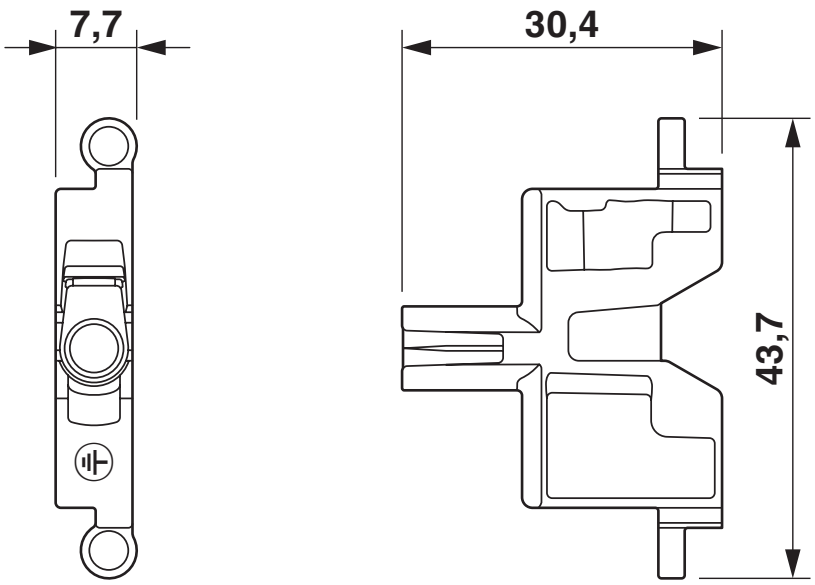
Specification	IEC 60068-2-31:2008-05
Requirements, visual check	Loose parts or damage that would impair functionality are not permitted.

Wire damage & tensile test

Specification	IEC 60999-1:1999-11
Requirements	During the test, the conductor must not slip out of the terminal point or break near the terminal point.

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424438

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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