

HC-B 24-A-UT-PER-F - Terminal adapter



1648102

<https://www.phoenixcontact.com/us/products/1648102>

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HEAVYCON terminal adapter female insert, B24 series, 24-pos., left protective conductor connection for the right side of the control cabinet, screw connection.



Commercial data

Item number	1648102
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BF61
Product key	AF7ADC
GTIN	4017918969752
Weight per piece (including packing)	212.81 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	For HEAVYCON-ADVANCE mounting flange and HEAVYCON panel mounting base of B24 type
General	Connectors may be operated only when there is no load/voltage.

Product properties

Product type	Terminal adapter
Product family	HC-B
Series	HC-B
Type	B24
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Screwdriver blade	0.5 x 3.5 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
SCCR	5 kA (UL 2237)

Connection data

Connection technology

Connection technology	Screw connection
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	0.5 mm ² ... 2.5 mm ²
Connection cross section AWG	20 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm
Stripping length of the individual wire	12 mm

Dimensions

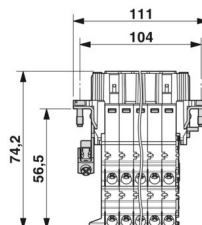
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Dimensional drawing



Width	34 mm
Height	74.2 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA

Cable/line

Stripping length of the individual wire	12 mm
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Tests	DIN EN 61984
	DIN EN 60664
	IEC 60352

Testing

Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
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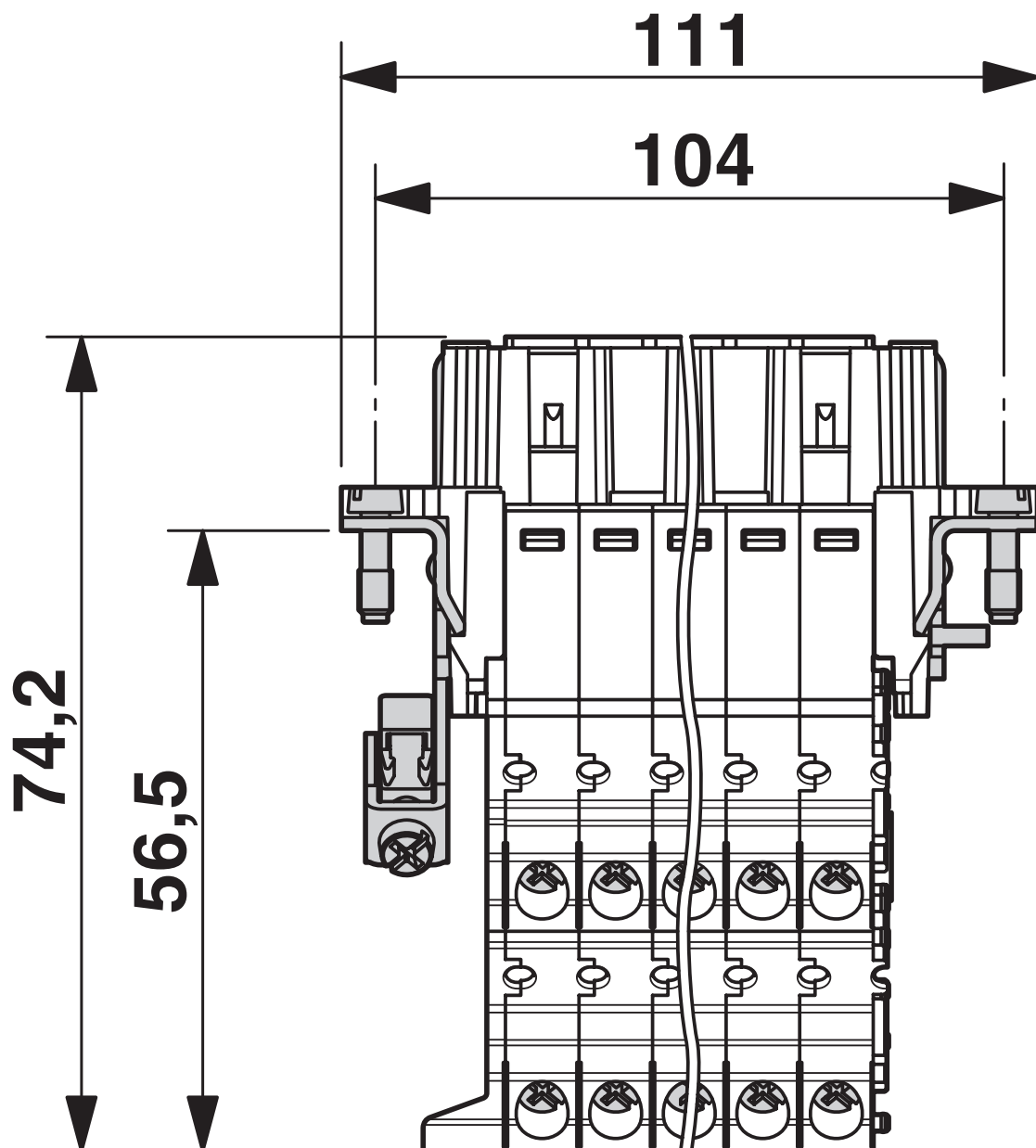
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Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Connectors may only be actuated when there is no load/voltage.

Drawings

Dimensional drawing



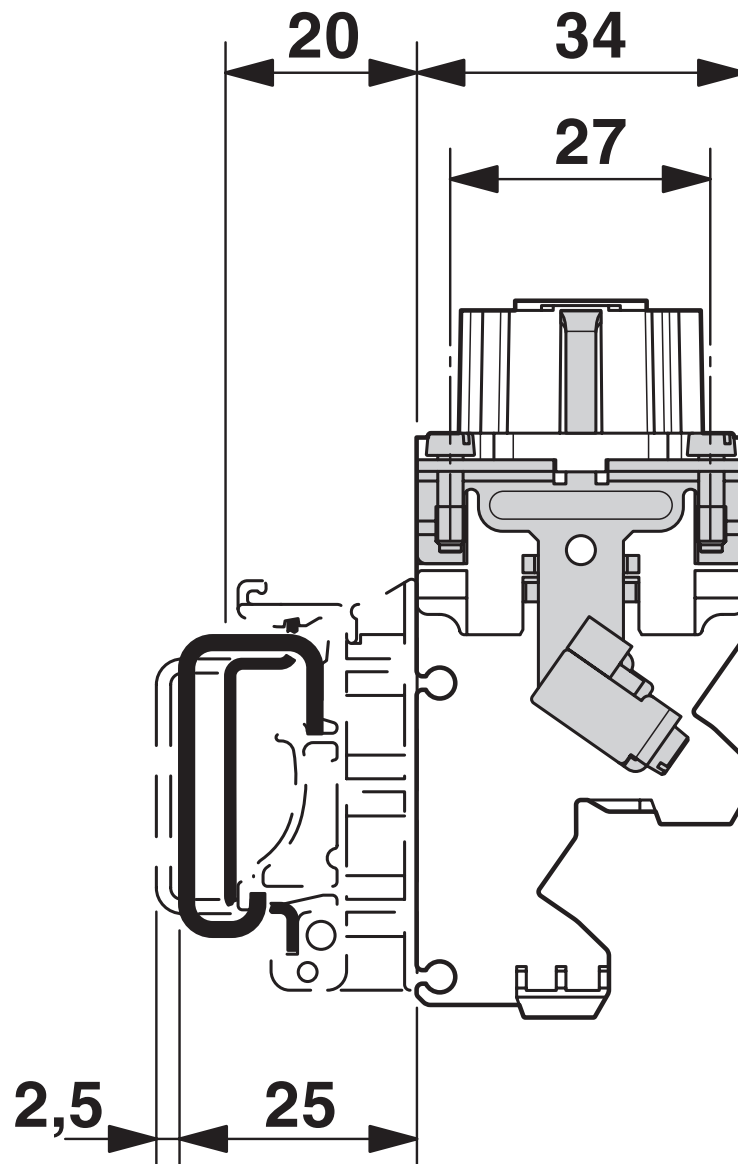
Connection side

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Dimensional drawing



Side view

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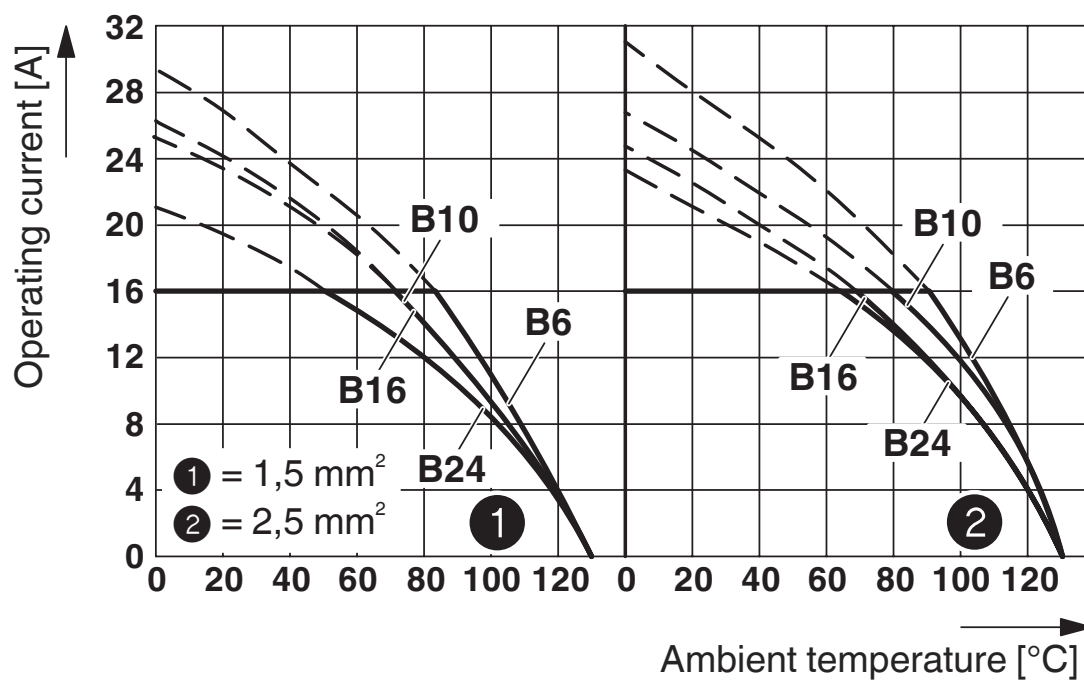
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Application drawing



Mounting position PE connection left/right (PEL/PER)

Diagram



Derating diagram

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Approvals

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 CSA Approval ID: 013631_6233_01				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	13 A	22 - 14	-

 cUL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	13 A	22 - 14	-

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	13 A	22 - 14	-

 cULus Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	14 A	- 14	-

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Classifications

ECLASS

ECLASS-13.0	27440222
ECLASS-15.0	27440222

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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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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