

VC-AMS 7 - Contact insert

1607751

<https://www.phoenixcontact.com/us/products/1607751>



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Contact insert, Range of articles: VARIOCON, design: VC4, housing material: PA, color: light grey, number of positions: 7, min. conductor cross section: 0.5 mm², max. conductor cross section: 16 mm², rated voltage: 690, rated current: 70 A, Connection method: Screw connection, Contact connection type: Pin, Connectors may only be connected/disconnected when under no load.

Your advantages

- Proven COMBICON technology
- Universal connection
- Can be keyed to prevent incorrect connection

Commercial data

Item number	1607751
Packing unit	5 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB01
Product key	ABLACC
Catalog page	Page 25 (C-2-2013)
GTIN	4017918969219
Weight per piece (including packing)	78.29 g
Weight per piece (excluding packing)	78.29 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General	Connectors may only be connected/disconnected when under no load.
Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"> • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible. • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. • The products are suitable for applications in plant, controller, and electrical device engineering. • When operating the connectors in outdoor applications, they must be separately protected against environmental influences. • Assembled products may not be manipulated or improperly opened. • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products). • When using the product in direct connection with third-party manufacturers, the user is responsible. • For operating voltages > 50 V AC, conductive connector housings must be grounded • Ensure that the protective or functional ground has been properly connected. • VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector • Observe the corresponding technical data. You will find information: <ul style="list-style-type: none"> o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product • Only use tools recommended by Phoenix Contact • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. • Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products • Operate the connector only when it is fully plugged in.

VC-AMS 7 - Contact insert

1607751

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- Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
- Observe the minimum bending radius of the cable. Lay the cable without twisting it.
- The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Contact insert
Product family	VARIOCON
Series	VC-M
Type	VC4
Number of positions	7
Connection profile	6+PE
Number of module slots	5

Data management status

Article revision	03
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Insulation characteristics

Degree of pollution	3
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Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
	690 V
Nominal voltage ATD	690
Rated surge voltage	6 kV
Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Rated surge voltage	6 kV
	70 A
	70 A
Rated current	70 A
	70 A
	70 A
Contact resistance, inner conductor	≤

Connection data

Connection method	Screw connection
Tightening torque	1.2 ... 1.8 Nm
Cross section AWG	20 ... 6

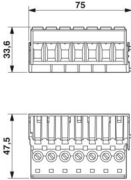
Dimensions

VC-AMS 7 - Contact insert

1607751

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Dimensional drawing		
Width		75 mm
Height		33.6 mm
Length		47.5 mm

Material specifications

Color		light grey
Color of the housing part		gray
Material		Polyamide
Flammability rating according to UL 94		V0
Insulating material group		I
Housing material		PA
Contact material		E-Cu 58
Contact surface material		hard-silver plated
Contact carrier material		PA
Material for screw connection		CuZn

Cable/line

Single wire, cross section		0.5 mm² 16 mm²
Stripping length of the individual wire		12 mm
Halogen-free		yes

Mechanical properties

Mechanical data		
Insertion/withdrawal cycles		≥ 50

Environmental and real-life conditions

Ambient conditions		
Ambient temperature (operation)		-40 °C ... 100 °C

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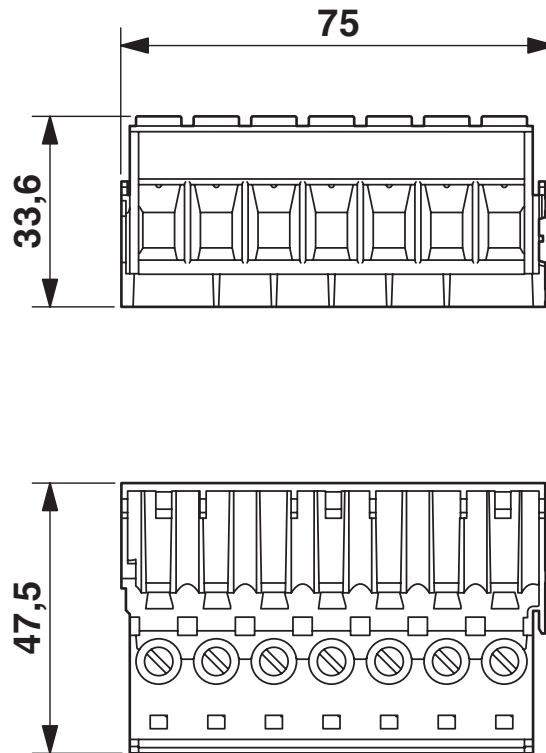
1607751

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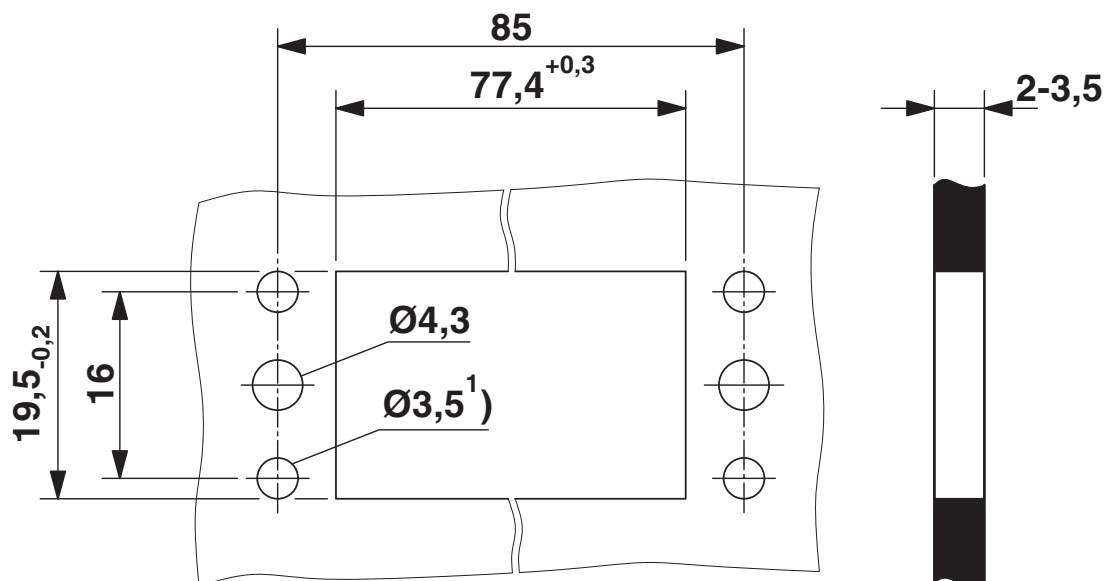
Drawings

Dimensional drawing



Contact insert

Dimensional drawing



Mounting cutout

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1607751


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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607751>

 cUL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	45 A	20 - 6	-

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	55 A	20 - 6	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	27440223

ETIM

ETIM 9.0	EC003557
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UNSPSC

UNSPSC 21.0	39121400
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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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