

1607495

https://www.phoenixcontact.com/us/products/1607495

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Contact insert with integrated sleeve frame, 2 free module slots, type VC 4, 3-pos. + PE, 690 V / 70~A



Your advantages

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

Commercial data

Item number	1607495
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	AB01
Product key	ABLACC
Catalog page	Page 33 (C-2-2013)
GTIN	4017918969158
Weight per piece (including packing)	52.83 g
Weight per piece (excluding packing)	52.83 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Notes

General	Connectors may only be connected/disconnected when under no load.
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 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: On the product On the packing label In the supplied documentation 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.



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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
Туре	VC4
Number of positions	4
Connection profile	3+PE
Number of module slots	3
Data management status	
Article revision	05
Insulation characteristics	
Degree of pollution	3
20g. oc c. poliation	•
Electrical properties	
Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
	690 V
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
Rated current	70 A
	70 A
	70 A
Connection data	
Connection method	Screw connection
Tightening torque	1.2 1.8 Nm
Cross section AWG	20 6
Screw thread	M4

Dimensions



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Dimensional drawing	57.8
Width	95.1 mm
Height	27.3 mm
Length	42.8 mm

Material specifications

Color	light grey
Color of the housing part	gray
Material	Polyamide
Flammability rating according to UL 94	V0
Insulating material group	T
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

Woodanical data		
	Insertion/withdrawal cycles	≥ 50

Environmental and real-life conditions

Ambient conditions

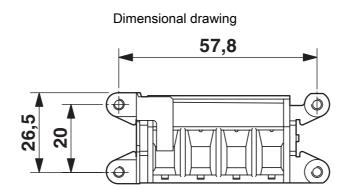
Ambient temperature (operation)	-40 °C 100 °C	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Ambient temperature (assembly)	-40 °C 70 °C	

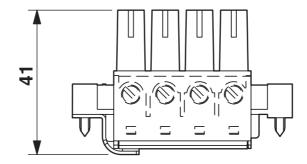
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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607495

. 91	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	-

71	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	-

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Classifications

ECLASS

	ECLASS-11.0	27440223			
	ECLASS-12.0	27440223			
	ECLASS-13.0	27440223			
ET	ETIM				
	ETIM 9.0	EC003557			
UNSPSC					
	UNSPSC 21.0	39121400			



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Environmental product compliance

EU RoHS

20 1.01.0	
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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