

## Contact carriers - VC-AMC 5 - 1583878

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Contact insert, Contact carriers, type: VC3, housing material: PA 6.6, color: gray, number of positions: 5, nom. voltage: 690, rated current: 70 A, Type of contact: Pin. Connectors may only be connected/disconnected when under no load.

### Your advantages

- ✓ Simply snap into the VC-AR... panel cutout and you're done!
- ✓ No need for panel mounting flange
- ✓ Crimp contacts are released using a flat-bladed screwdriver
- ✓ No need for panel mounting frame

RoHS

### Key Commercial Data

Packing unit	5 pc
GTIN	 4 046356 569637
GTIN	4046356569637

### Technical data

#### General

Note	Connectors may only be connected/disconnected when under no load.
Connection technology	Crimp connection
Connection method	Crimp connection
Degree of pollution	3
Number of positions	4+PE
Insertion/withdrawal cycles	≥ 50
Size	VC3
Conductor cross section AWG min.	12
Conductor cross section AWG max.	6
Conductor cross section	4 mm² ... 16 mm²

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C
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## Technical data

### Material data

Housing material	PA 6.6
Contact material	CuZn
Contact surface material	hard-silver plated
Contact carrier material	PA

### Electrical characteristics

Rated voltage (III/3)	690 V
Rated surge voltage	6 kV
Rated current	70 A
	70 A

### Standards and Regulations

Halogen-free	yes
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0
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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> ).
	• 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"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul>

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### Technical data

#### Standards and Regulations

	<ul style="list-style-type: none"><li>• Only use tools recommended by Phoenix Contact</li></ul>
	<ul style="list-style-type: none"><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/pi/products">phoenixcontact.com/pi/products</a> must be observed for this product.</li></ul>
	<ul style="list-style-type: none"><li>• 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 <a href="https://www.phoenixcontact.com/pi/products">phoenixcontact.com/pi/products</a></li></ul>
	<ul style="list-style-type: none"><li>• Operate the connector only when it is fully plugged in.</li></ul>
	<ul style="list-style-type: none"><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li></ul>
	<ul style="list-style-type: none"><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li></ul>

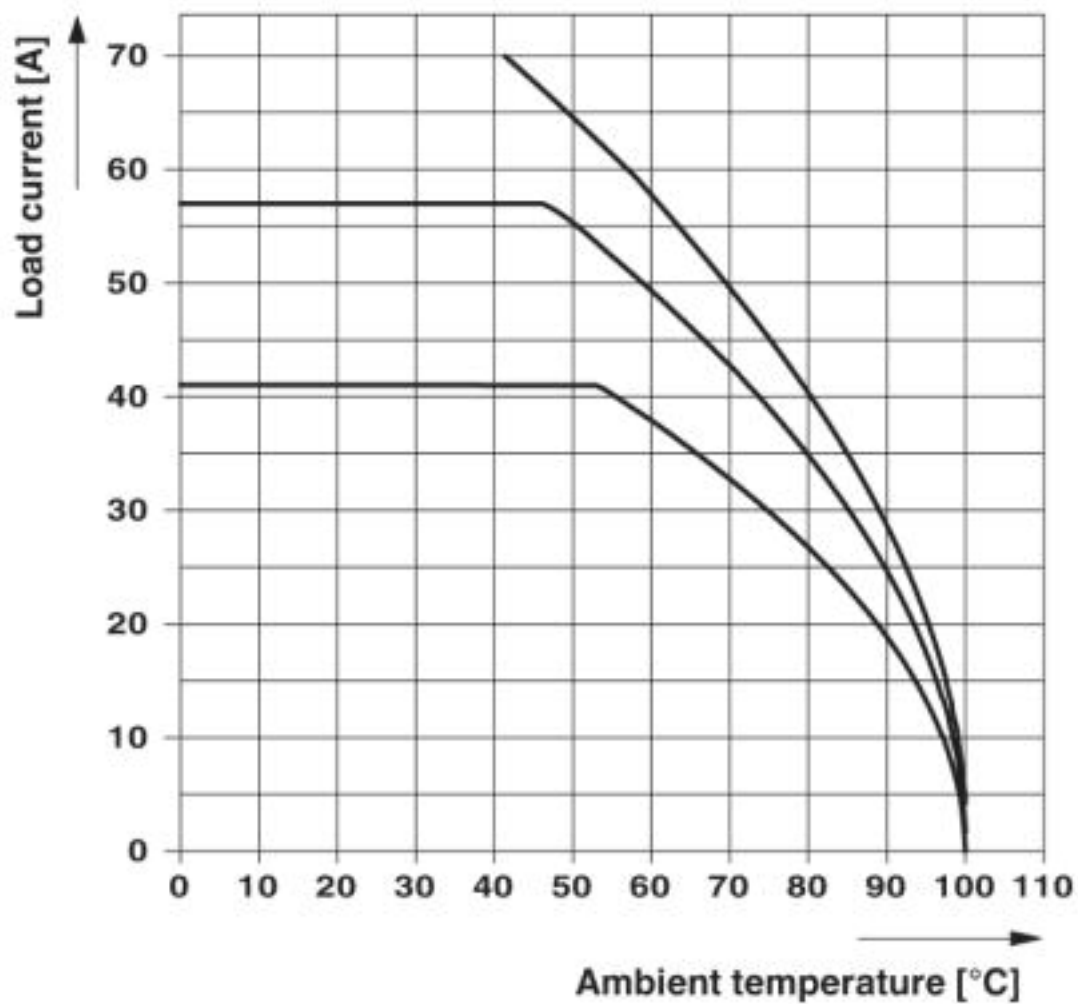
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

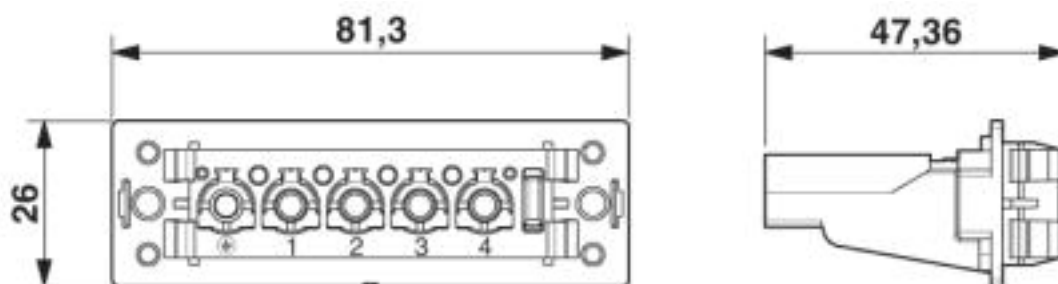
### Drawings

## Contact carriers - VC-AMC 5 - 1583878

Diagram



Dimensional drawing



### Classifications

eCl@ss

eCl@ss 10.0.1	27440202
eCl@ss 4.0	27140800

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### Classifications

#### eCl@ss

eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440202
eCl@ss 8.0	27440202
eCl@ss 9.0	27440202

#### ETIM

ETIM 4.0	EC000437
ETIM 5.0	EC000437
ETIM 6.0	EC000437
ETIM 7.0	EC000437

#### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	31261501
UNSPSC 18.0	31261501
UNSPSC 19.0	31261501
UNSPSC 20.0	31261501
UNSPSC 21.0	31261501

### Approvals

#### Approvals

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##### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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##### Ex Approvals


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#### Approval details


## Contact carriers - VC-AMC 5 - 1583878

### Approvals

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN	600 V		
Nominal current IN	50 A		
mm²/AWG/kcmil	8		

cUL Recognized			<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN	600 V			
Nominal current IN	50 A			
mm²/AWG/kcmil	8			

EAC		B.01687
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cULus Recognized	
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### Accessories

Accessories

Coding element

Coding profile - CP-HCC 4 - 1600027



Coding profile, number of positions: 1, pitch: 0 mm, color: red

Crimp contact

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### Accessories

Crimp contact - IPCC 16-16-MT - 1733367



Single crimp pin contact for stranded conductors with 16 mm<sup>2</sup> cross section. Can only be crimped by machine, not with manual crimping pliers.

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Crimp contact - IPCC 16-10-MT - 1733372



Single crimp pin contact for flexible cable with 6 and 10 mm<sup>2</sup> cross section.

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Crimp contact - IPCC 16- 4-MT - 1733385



Single crimp pin contact for flexible cable with 4 mm<sup>2</sup> cross section.

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