Contact insert - VC-TFS 8

1852820

https://www.phoenixcontact.com/pc/products/1852820

Contact insert, Range of articles: VARIOCON, Contact insert, housing material: Polyamide, color: light grey, number of positions: 8, min. conductor cross section: 0.14 mm^2, max. conductor cross section: 1.5 mm^2, rated voltage: 160, rated current: 10 A, Connection method: Screw connection, Type of contact: Socket. Connectors may only be connected/disconnected when under no load.

Your advantages

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

Commercial Data

Item number	1852820
Packing unit	50 pc
Minimum order quantity	1 pc
Product Key	ABLACA
Catalog Page	Page 33 (C-2-2013)
GTIN	4017918127152
Weight per Piece (including packing)	7.319 g
Weight per Piece (excluding packing)	6.7 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: 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.

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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
Number of positions	8
Number of module slots	1
Series	VC-M
Insertion force	4 N (per position)
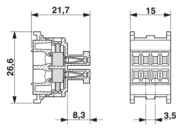
Insulation characteristics

Degree of pollution	3

Electrical properties

Rated voltage (II/2)	250 V
Rated voltage (III/2)	160 V
Rated voltage (III/3)	160 V
Rated voltage (III/3)	160 V
Rated surge voltage	2.5 kV
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage	2.5 kV
Rated current	10 A
Rated current	10 A
Rated current	10 A

Dimensions

Dimensional drawing	
Width	15 mm
Height	27.5 mm
Length	21.8 mm

Material specifications

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

Insulating material group	I / CTI 600
Contact material	CuZn
Contact surface material	Tin-plated
Contact carrier material	PA
Housing material	Polyamide

Connector

Insertion/withdrawal cycles	≥ 100

Cable / line

Cable structure

Single wire, cross section	0.14 mm² 1.5 mm² 28 16
Stripping length of the individual wire	7 mm

Mechanical properties

Mechanical data

Insertion force	4 N (per position)

Environmental and real-life conditions

Ambient conditions

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

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Drawings

Diagram

Dimensional drawing
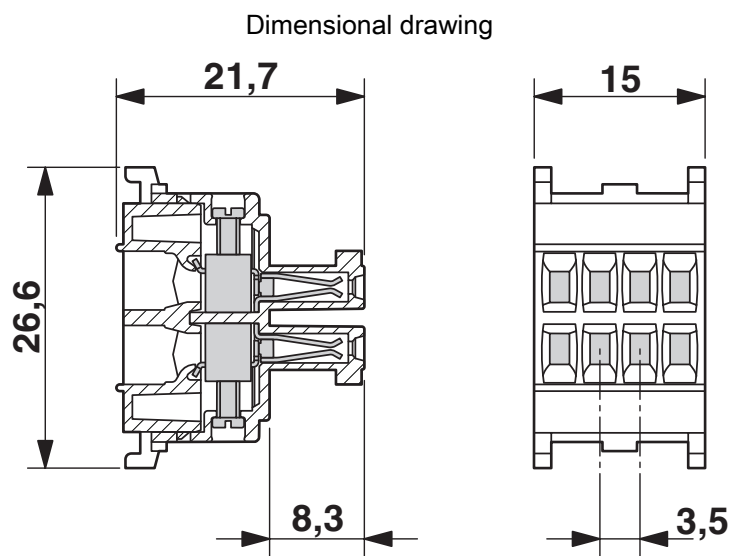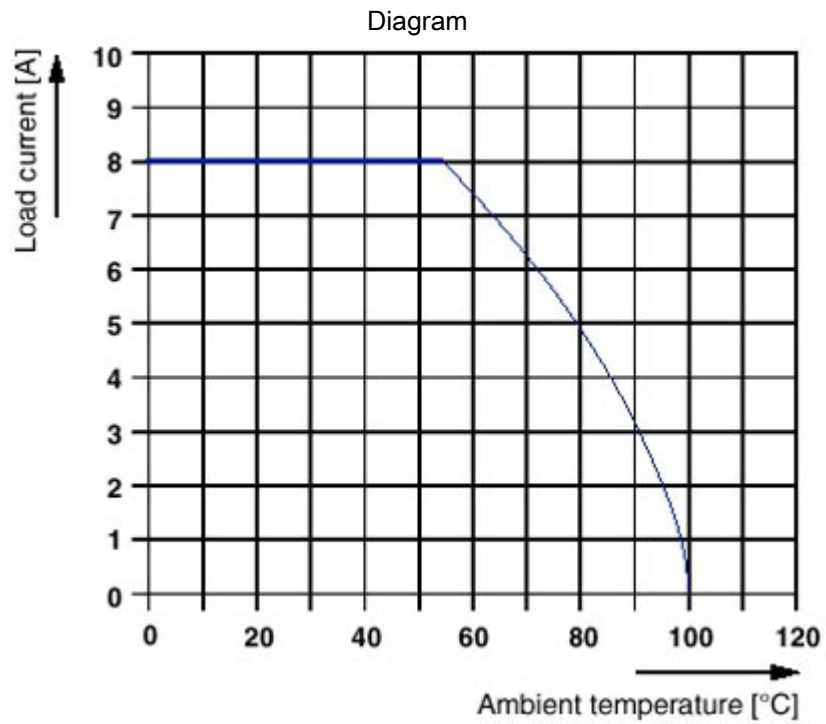
Approvals

cUL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	8 A	30 - 14	-

UL Recognized
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	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	8 A	30 - 14	-

EAC
Approval ID: B.01687

cULus Recognized

Classifications

ECLASS

ECLASS-9.0	27440205
ECLASS-10.0.1	27440205
ECLASS-11.0	27440223

ETIM

ETIM 8.0	EC003557

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Marker card

Marker card - SK U/5,0 WH:UNBEDRUCKT - 0803922

https://www.phoenixcontact.com/pc/products/0803922

Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 5 mm, Number of individual labels: 630

Marker card

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

https://www.phoenixcontact.com/pc/products/0803906

Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440
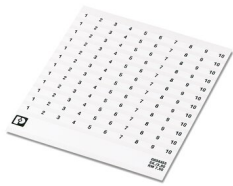
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Marker card

Marker card - SK 7,5/3,8:FORTL.ZAHLEN - 0804455

https://www.phoenixcontact.com/pc/products/0804455

Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.5 mm, lettering field size: 7.5 x 3.8 mm

Marker card

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183

https://www.phoenixcontact.com/pc/products/0804183

Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm

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Marker card

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073

https://www.phoenixcontact.com/pc/products/0804073

Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size: 3.5 x 2.8 mm

Coding profile

Coding profile - CP-MSTB - 1734634

https://www.phoenixcontact.com/pc/products/1734634

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

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Coding profile

Coding profile - CP-HCC 4 - 1600027

https://www.phoenixcontact.com/pc/products/1600027

Coding element, Coding profile, color: red, product range: CODIERUNG