

2909533

https://www.phoenixcontact.com/in/products/2909533

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 14 mm with Push-in connection and plug-in relay with 10 A power contact, 1 changeover contact, 120 V AC/110 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.

#### Commercial data

Item number	2909533
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6
Product key	CK623A
Catalog page	Page 387 (C-5-2019)
GTIN	4055626363707
Weight per piece (including packing)	74.78 g
Weight per piece (excluding packing)	66.48 g
Customs tariff number	85364900
Country of origin	DE



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#### Technical data

#### Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

#### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	High continuous currents
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

#### Insulation characteristics

Insulation	Safe isolation, reinforced insulation
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#### Insulation characteristics: Standards/regulations

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3

#### Electrical properties

Maximum power dissipation for nominal condition	0.54 W	
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)	
Standards/regulations		
otandards/regulations		
Rated insulation voltage	250 V AC	

#### Input data

#### Coil side

Manager Para Confloration	400 1 / 4 0
Nominal input voltage U <sub>N</sub>	120 V AC
	110 V DC
Input voltage range	102 V AC 168 V AC (20 °C)
	85.8 V DC 154 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	4.5 mA
Typical response time	7 ms
Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED



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#### Output data

#### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Minimum switching voltage	12 V AC/DC (10 mA)
Limiting continuous current	10 A
	6 A (value applies to connections 12. If connections 12 are bridged, the normal value applies.)
Maximum inrush current	30 A (300 ms)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	2500 VA (for 250 V AC)
Interrupting rating (ohmic load) max. bridged	144 W (for 24 V DC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)
	1500 VA (for 250 V AC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)

#### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm² 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 14

#### **Dimensions**

Width	14 mm
Height	80 mm
Depth	94 mm



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#### Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-20 °C 60 °C (UL)
	-40 °C 60 °C (ATEX / IECEx)
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Approvals

Humidity

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CE	
Certificate	CE-compliant CE-compliant
ATEX	
Identification	ⓑ II 3G Ex ec nC IIC T4 Gc
Certificate	IBExU16ATEXB015 X
IECEx	
Identification	Ex ec nC IIC T4 Gc
Certificate	IECEx IBE 16.0029X
UKCA Ex (UKEX)	
Identification	ⓑ II 3 G Ex ec nC IIC T4 Gc
Certificate	PxCIF21UKEX2909514X
UL, USA	
Identification	Class I, Zone 2, AEx nA nC IIC T6
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D
UL, Canada	
Identification	Class I, Zone 2, Ex nA nC IIC Gc T6 X
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
DNV GL data	
Temperature	D
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Assembly instructions

Mounting position

Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
Standards and regulations Standards/regulations	
Standards/regulations	IEC 60664
	EN 50178
	EN 60079-0, -7, -15
Mounting	
Mounting type	DIN 11 C
Wounting type	DIN rail mounting

in rows with zero spacing

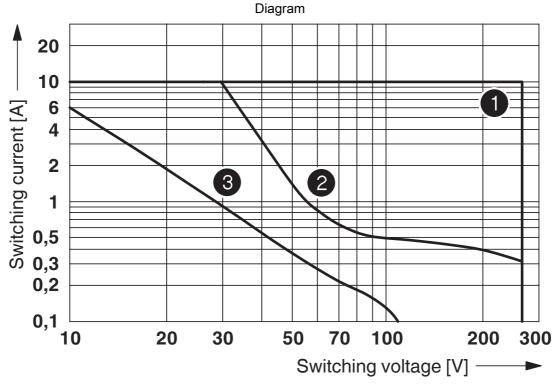
any



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### **Drawings**



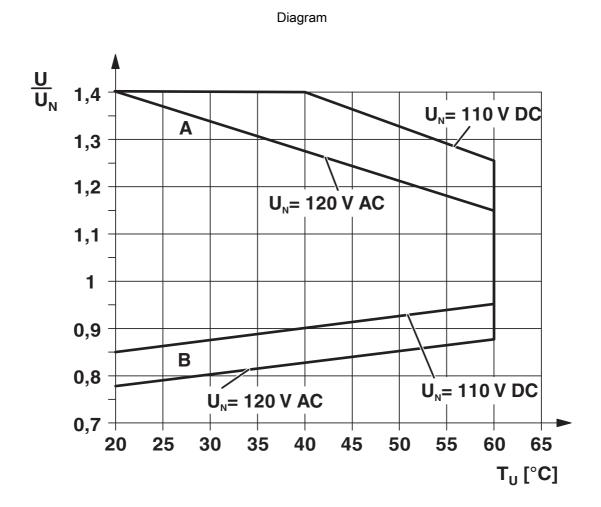
- 1 AC, ohmic load
- DC, ohmic loadDC, L/R = 40 ms

Interrupting rating



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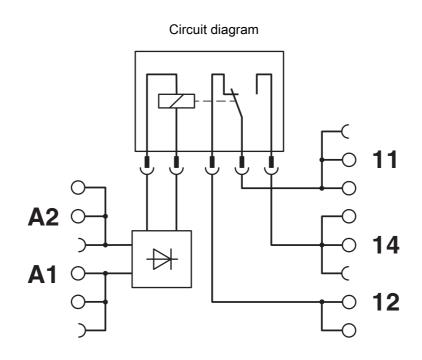


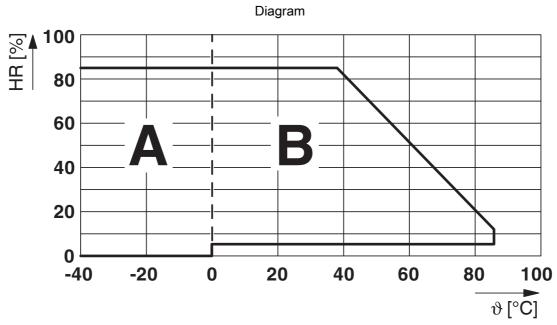
Curve A Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data) Curve B Minimum permissible operate voltage  $U_{op}$  after pre-excitation (see relevant technical data)



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Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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#### Approvals

🕫 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/2909533



**DNV GL** 

Approval ID: TAE0000196



CCC

Approval ID: 2021122304114118



**cULus Listed** 

Approval ID: E140324



**IECEx** 

Approval ID: IECEx IBE 16.0029X



**ATEX** 

Approval ID: IBExU 16 ATEX B015 X



AC Ex

Approval ID: RU C-DE.AB72.B.02328



IECEx

Approval ID: IECEx IBE 16.0029X



**cUL Listed** 

Approval ID: FILE E 199827



**UL Listed** 

Approval ID: FILE E 199827



ATEX

Approval ID: 16ATEXB015X



**cULus** Listed

Approval ID: E199827



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ET	ТІМ		
	ETIM 9.0	EC001437	
UN	UNSPSC		
	UNSPSC 21.0	39122300	



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
Ohina Dallo	Facility as a stally. Friendly, Han Davied - FO years
China RoHS	Environmentally Friendly Use Period = 50 years

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