

2909511

https://www.phoenixcontact.com/us/products/2909511

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 14 mm with screw connection and plug-in relay with power contact, 2 changeover contacts, 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	2909511
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK623K
Catalog page	Page 386 (C-5-2019)
GTIN	4055626363141
Weight per piece (including packing)	78.6 g
Weight per piece (excluding packing)	70.63 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	Class I, Division 2
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

#### Insulation characteristics

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

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Inculation	

insulation	Sate 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)
Test voltage (Changeover contact/changeover contact)	2.5 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

#### Input data

#### Coil side

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 (U <sub>N</sub> = 120 V AC)
	4.2 mA (U <sub>N</sub> = 110 V DC)
Typical response time	7 ms



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Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

#### Output data

#### Switching

Contact switching type	2 changeover contacts
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	5 V AC/DC (10 mA)
Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (5 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm² 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm

#### **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

Temperature

Humidity

CE	
Certificate	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	
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	
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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
EM	1C data	
	Low Voltage Directive	Conformance with Low Voltage Directive
	Electromagnetic compatibility	Conformance with EMC directive
	andards and regulations Standards/regulations	
	Standards/regulations	IEC 60947-5-1
		EN 60079-0
		EN 60079-7
		EN 60079-15
Мо	punting	
	Mounting type	DIN rail mounting

in rows with zero spacing

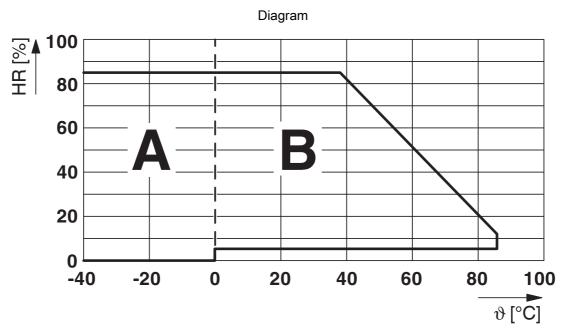
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### **Drawings**



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

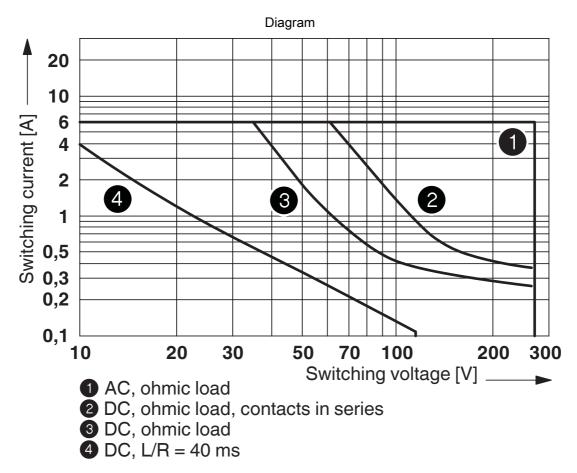
Area B: Condensation at ambient temperatures > 0°C must be prevented

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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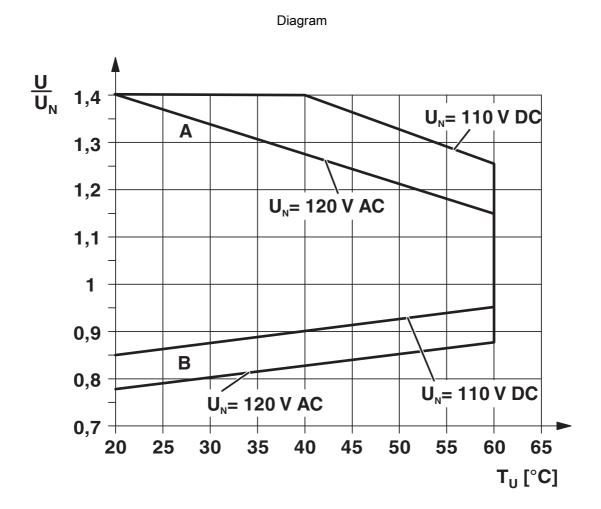


Interrupting rating



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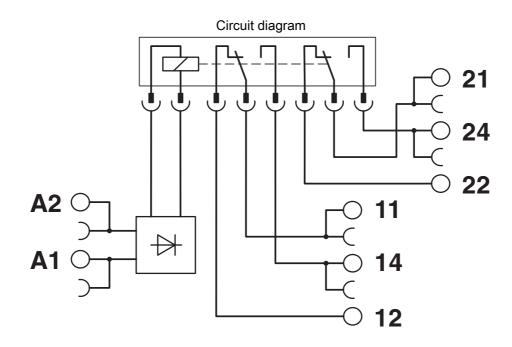


Curve A Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data) Curve B Minimum permissible operate voltage  $U_{op}$  after pre-excitation (see relevant technical data)



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#### Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909511



**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



EAC 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

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601
ETIM	
ETIM 9.0	EC001437
UNSPSC	

39122300



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### Environmental product compliance

#### EU RoHS

Environment friendly use period (EFUP)  EFUP-50  An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.		
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Environment friendly use period (EFUP)  EFUP-50  An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.  EU REACH SVHC  REACH candidate substance (CAS No.)  Hexahydromethylphthalic anhydride(CAS: n/a)  Lead(CAS: 7439-92-1)	Exemption	7(a), 7(c)-l
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SCIP 7f4b34d1-512a-4fa1-9c47-6e67de26e576		Lead(CAS: 7439-92-1)
	SCIP	7f4b34d1-512a-4fa1-9c47-6e67de26e576

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