

2909679

<https://www.phoenixcontact.com/us/products/2909679>

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact and manual operation, 1 N/O contact, 120 V AC/110 V DC input voltage

Commercial data

Item number	2909679
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62A7
Catalog page	Page 381 (C-5-2019)
GTIN	4055626378114
Weight per piece (including packing)	35.49 g
Weight per piece (excluding packing)	31.27 g
Customs tariff number	85364900
Country of origin	DE

PLC-RPT-120UC/ 1AU/MS/SEN - Relay module



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Technical data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Palm switch
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles

Data management status

Date of last data management	03.07.2024
Article revision	03

Electrical properties

Maximum power dissipation for nominal condition	0.42 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Insulation characteristics: Coil/contact

Rated insulation voltage	250 V
Rated impulse withstand voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Input data

Coil side

Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range	93.6 V AC ... 168 V AC (20 °C)
	85.8 V DC ... 154 V DC (20 °C)
Nominal voltage (plugged-in electromechanical relay)	60 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical release time	15 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC

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Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Short-circuit current	200 A (conditional short-circuit current)
Interrupting rating (ohmic load) max.	1 W (at 24 V DC)
Output fuse	4 A gL/gG NEOZED

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
Switching capacity	1500 VA (for 250 V AC)
	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

Connection data

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

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)

RT II (Relay)

Degree of protection (Relay base)

IP20 (Relay base)

Ambient temperature (operation)

-40 °C ... 60 °C

Ambient temperature (storage/transport)

-40 °C ... 85 °C

Approvals

CE

Certificate

CE-compliant

UKCA

Certificate

UKCA-compliant

Shipbuilding approval

Certificate

TAE0000196

Corrosive gas test

Identification

ISA-S71.04. G3 Harsh Group

EN 60068-2-60

DNV GL data

Temperature

D

Humidity

A

Vibration

B/C

EMC

B

Enclosure

Required protection according to the Rules shall be provided upon installation on board

EMC data

Low Voltage Directive

Conformance with Low Voltage Directive
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Electromagnetic compatibility

Conformance with EMC directive

Standards and regulations

Standards/regulations

Standards/regulations

IEC 60664

IEC 60664A

DIN VDE 0110

IEC 60255/DIN VDE 0435 (in relevant parts)
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Mounting

Mounting type

DIN rail mounting

Assembly note

in rows with zero spacing

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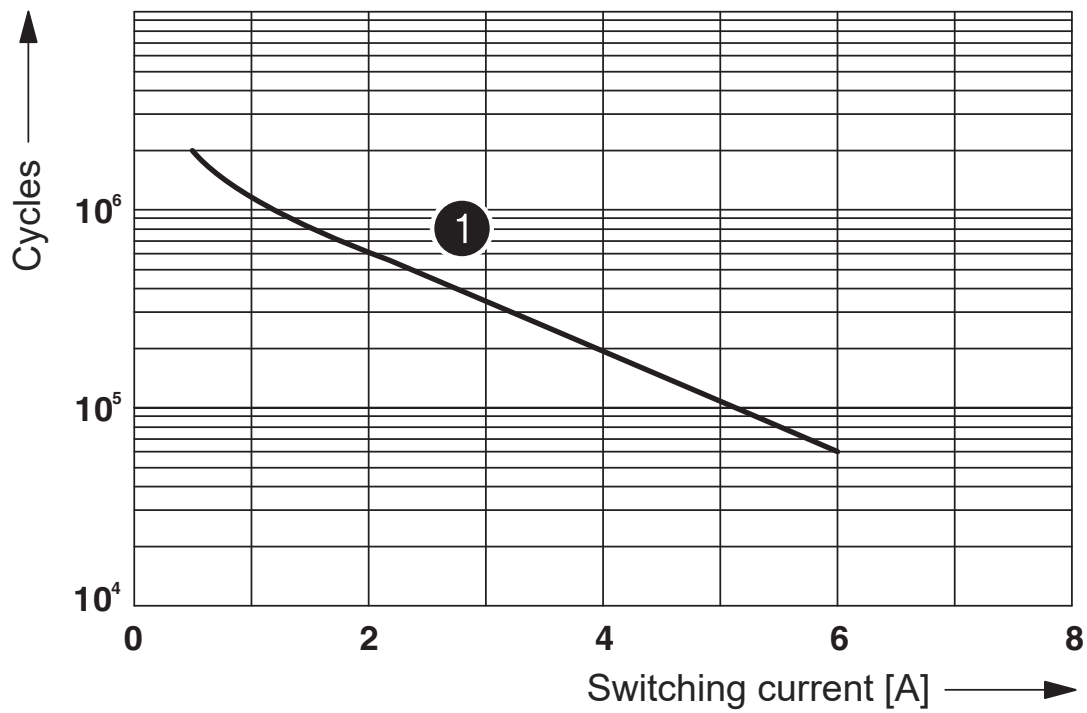
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Mounting position	any
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Drawings

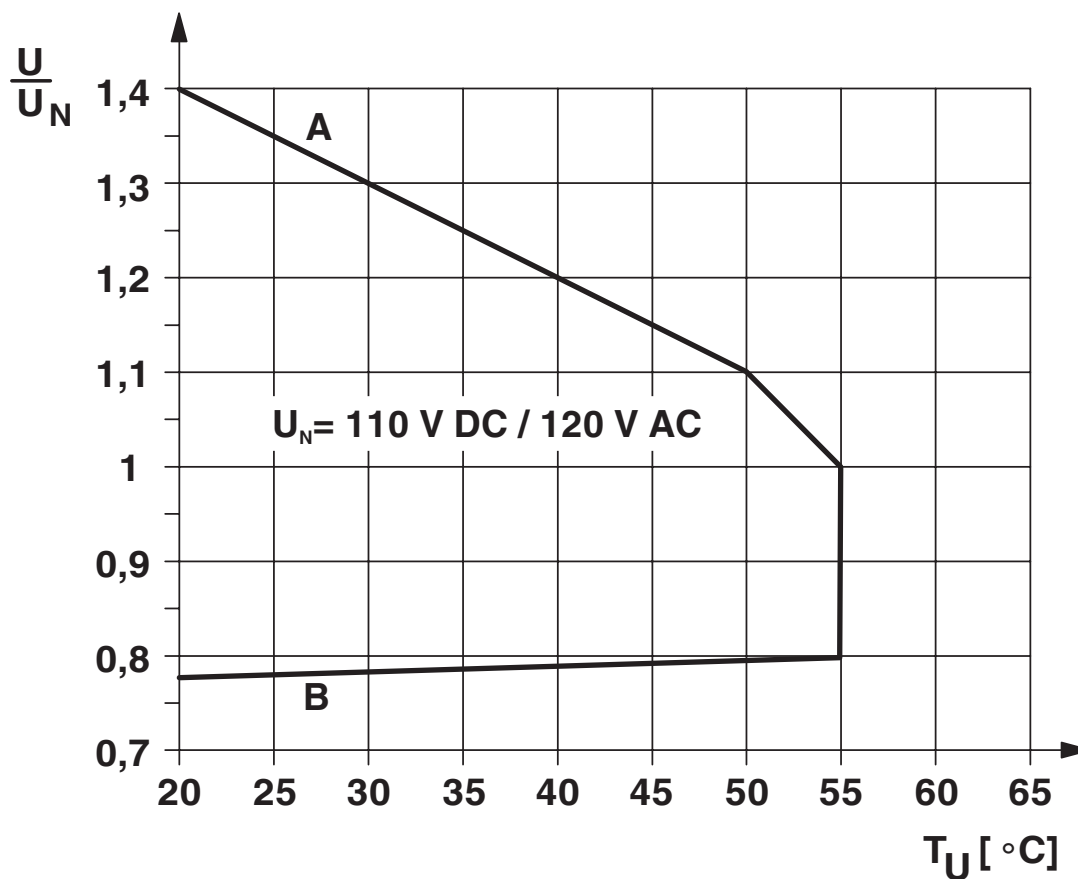
Diagram



① 250 V AC, ohmic load

Electrical service life

Diagram

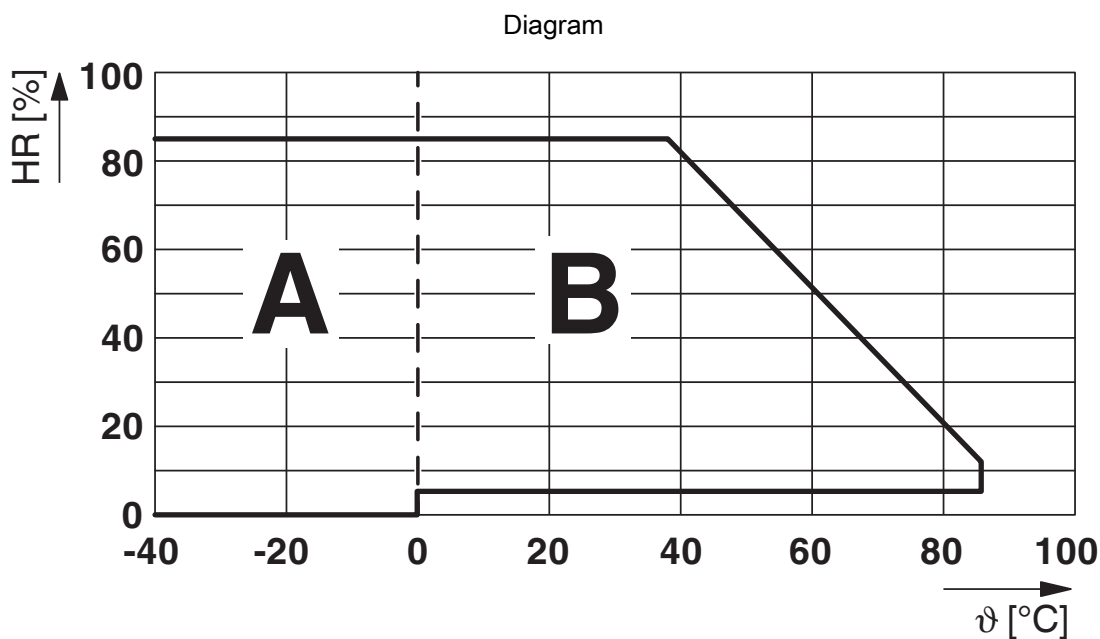
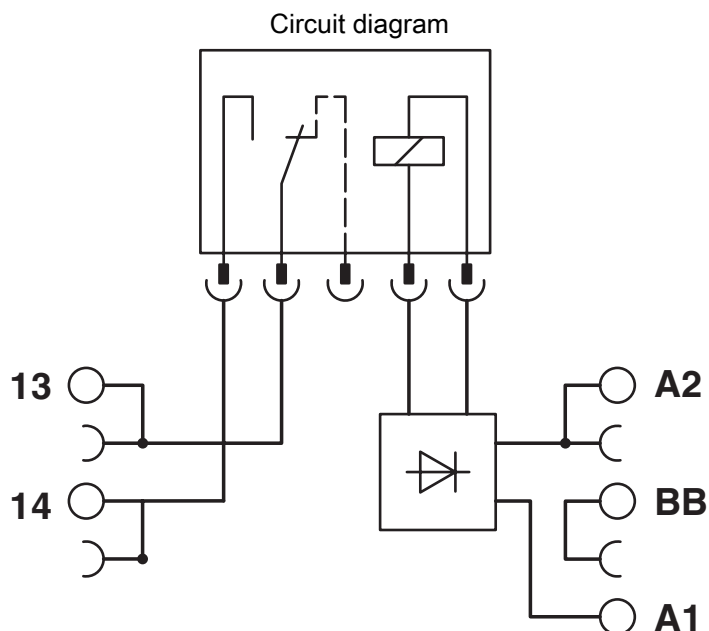


Curve A

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)



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 $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ 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 $\leq 25^{\circ}\text{C}$.

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2909679>



EAC

Approval ID: TR_TS_D_00573_c



DNV GL

Approval ID: TAE0000196



EAC

Approval ID: RU*C-DE.*08.B.00010



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 9.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China 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.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	64c0ab53-71bc-4272-a2f9-4634da79ba46