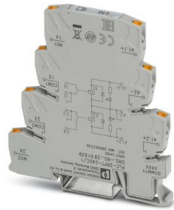


# PLC-2RPT-24DC/1 - Relay module

2901639

<https://www.phoenixcontact.com/us/products/2901639>

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PLC-INTERFACE with two independent relays, consisting of PLC-BPT.../21 basic terminal block with push-in connection and two integrated relays, power contact, for mounting on DIN rail NS 35/7,5, 2 x 1 N/O contact, input voltage 24 V DC

## Your advantages

- Two switching channels in one 6.2 mm housing
- 100% higher channel density than conventional 6.2 mm relays
- Integrated input circuit/protective circuit
- Safe isolation according to DIN EN 50178 between coil and contacts and between contacts
- Screw- and Push-in connection

## Commercial data

Item number	2901639
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK62A8
GTIN	4046356620376
Weight per piece (including packing)	32.34 g
Weight per piece (excluding packing)	29.3 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	two integrated relays
Operating mode	100% operating factor
Mechanical service life	2x 10 <sup>7</sup> cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	01.04.2026
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### Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Winding/contact)	3 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	3 kV AC (50 Hz, 1 min., contact/contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

### Input data

Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	18 V DC ... 33.6 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	7 mA
Typical response time	4 ms
Typical release time	6 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection; Freewheeling diode
Operating voltage display	Yellow LED

### Output data

Switching

Contact switching type	2 N/O contacts
Type of switch contact	Single contact
Note regarding the switch contact	two integrated relays

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Contact material	AgNi
Maximum switching voltage	250 V AC
	30 V DC
Minimum switching voltage	24 V AC/DC
Limiting continuous current	3.5 A
Maximum inrush current	5 A
Min. switching current	5 mA
Interrupting rating (ohmic load) max.	84 W (at 24 V DC)
	24 W (at 48 V DC)
	24 W (at 60 V DC)
	31 W (at 110 V DC)
	46 W (at 220 V DC)
	875 VA (for 250 V AC)

## Connection data

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

## Dimensions

### Item dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 60 °C

## Approvals

### CE

Certificate	CE-compliant
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### Corrosive gas test

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Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive

## Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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## Drawings

Application drawing



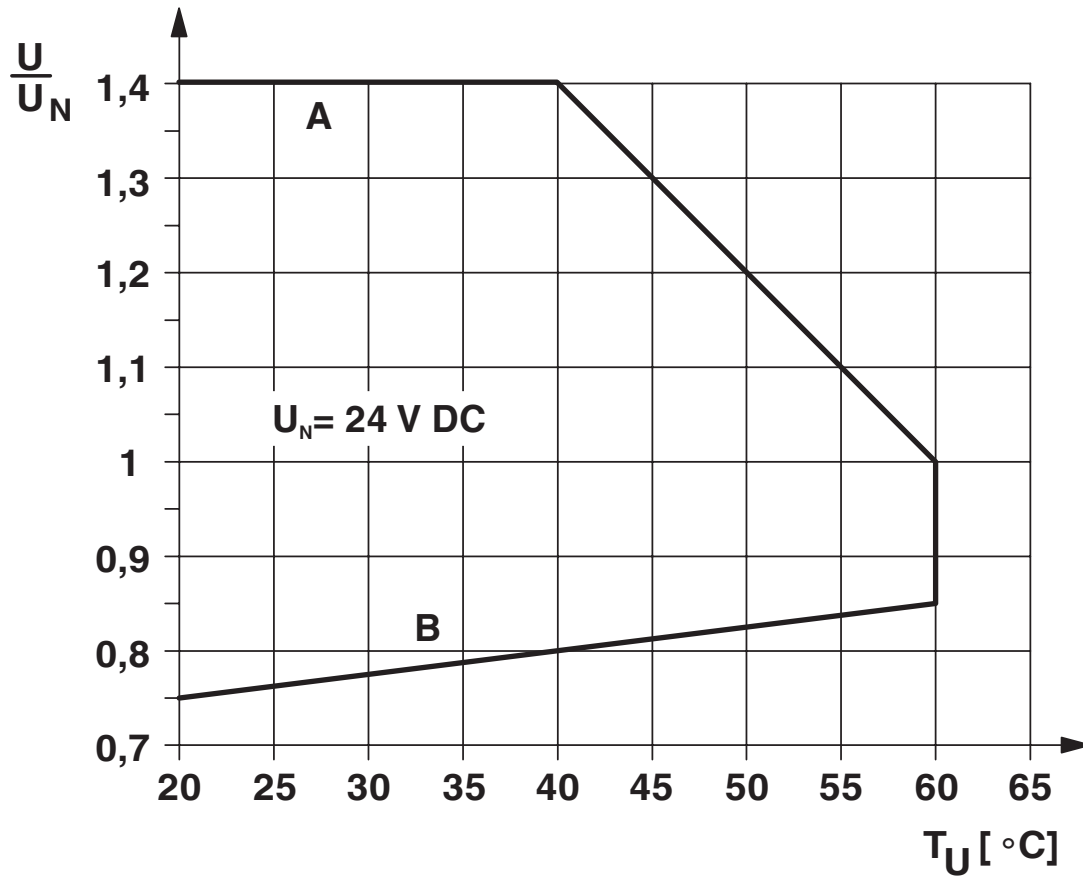
Diagram



① DC, ohmic load

Interrupting rating

Diagram



Operating voltage range

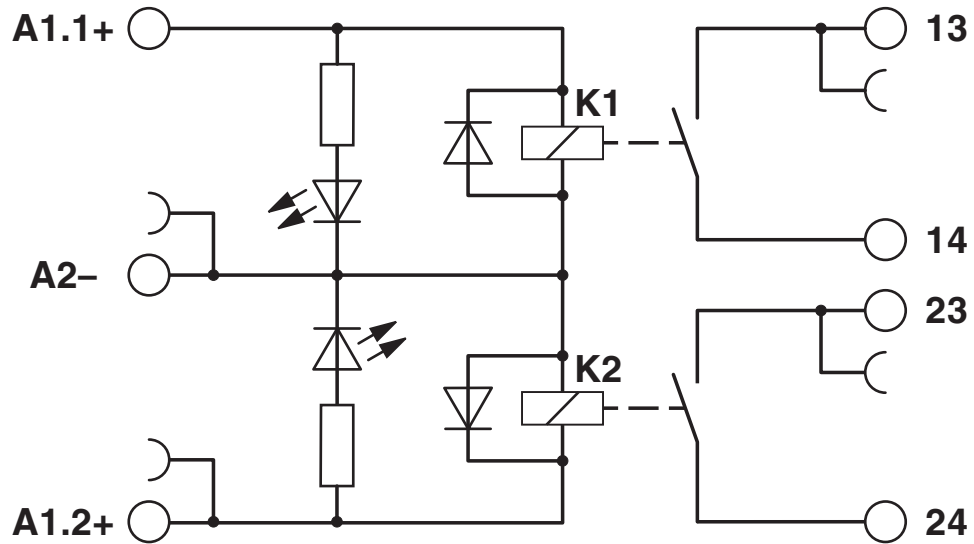
# PLC-2RPT-24DC/1 - Relay module



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Circuit diagram



# PLC-2RPT-24DC/1 - Relay module



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2901639>



**cULus Listed**

Approval ID: E140324



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Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 10.0	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.)	Lead(CAS: 7439-92-1)
SCIP	ee8b6ad9-e4a5-448d-a1e8-bfe4c6622d4d

### EF3.1 Climate Change

CO2e kg	0.395 kg CO2e
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