

# PR1-RSC3-LV-230AC/21 - Relay Module



2834355

<https://www.phoenixcontact.com/us/products/2834355>

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Pre-assembled PR1-RSC... relay modules with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket.  
Input voltage: 230 V AC, 1 changeover contact, 12 A

## Your advantages

- Safe isolation between coil and contact side
- Operational reliability thanks to sealed relay
- Logical contact arrangement thanks to 1/3-level relay base

## Commercial data

Item number	2834355
Packing unit	1 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	C463
Product key	CK6319
Catalog page	Page 394 (C-7-2015)
GTIN	4046356044240
Weight per piece (including packing)	68.8 g
Weight per piece (excluding packing)	66.51 g
Customs tariff number	85364900
Country of origin	CN

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## Set consists of

### PR1-BSC3/2X21 - Relay base

2833521

<https://www.phoenixcontact.com/us/products/2833521>



PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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### REL-MR-230AC/21HC - Single relay

2961422

<https://www.phoenixcontact.com/us/products/2961422>



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 230 V AC

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## LV-120-230AC/110DC - Plug-in module

2833738

<https://www.phoenixcontact.com/us/products/2833738>



Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 V DC  $\pm 20$  %

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## EL1-P16 - Retaining bracket

2833547

<https://www.phoenixcontact.com/us/products/2833547>



Relay retaining bracket, with eject function and integrated equipment marking area (7.5 x 15 mm), to suit relay base PR1, for 16 mm high miniature power relay and solid-state relay

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## MP 1 - Marker labels

2833631

<https://www.phoenixcontact.com/us/products/2833631>

Equipment marker, labeling surface 6 x 15 mm



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## Technical data

### Product properties

Product type	Relay Module
Application	Universal
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	3

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.38 W
Test voltage (Winding/contact)	4 kV (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	230 V AC
Input voltage range	179.4 V AC ... 356.5 V AC
Drive and function	monostable
Typical input current at U <sub>N</sub>	6 mA (at 50 Hz) 5.5 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms
Typical release time range	2 ms ... 22 ms
Protective circuit	Varistor
Operating voltage display	Yellow LED

### 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
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	12 A
Maximum inrush current	30 A (300 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	3000 W (for 250 V AC) 50 W (at 110 V DC) 80 W (at 220 V DC) 288 W (at 24 V DC)

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Switching capacity	at 440 V AC
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	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

### Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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>
Conductor cross section AWG	26 ... 14

### Contact side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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>
Conductor cross section AWG	26 ... 14

## Dimensions

Width	16 mm
Height	78.5 mm
Depth	71 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing

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Mounting position	any
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# PR1-RSC3-LV-230AC/21 - Relay Module

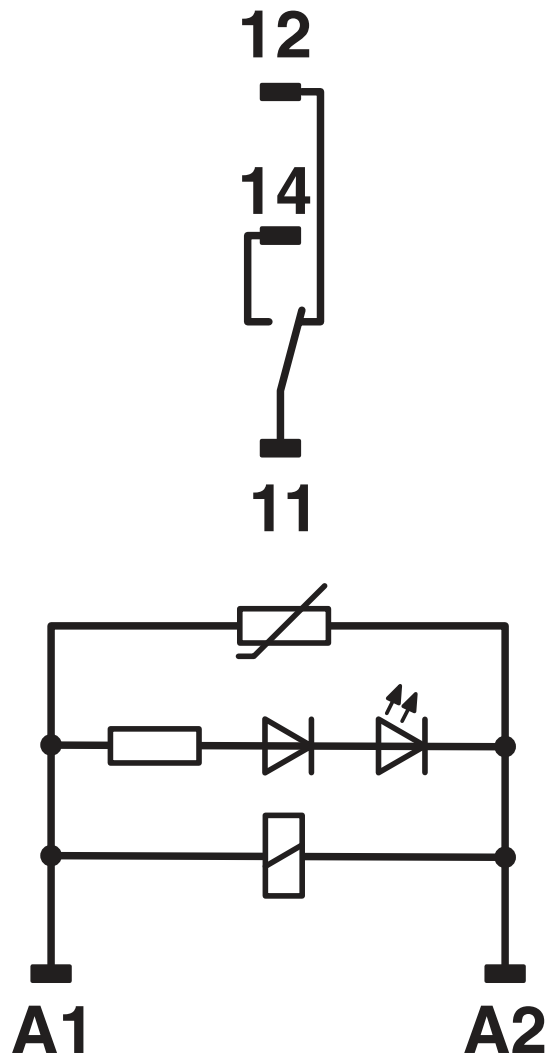
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## Drawings

Circuit diagram

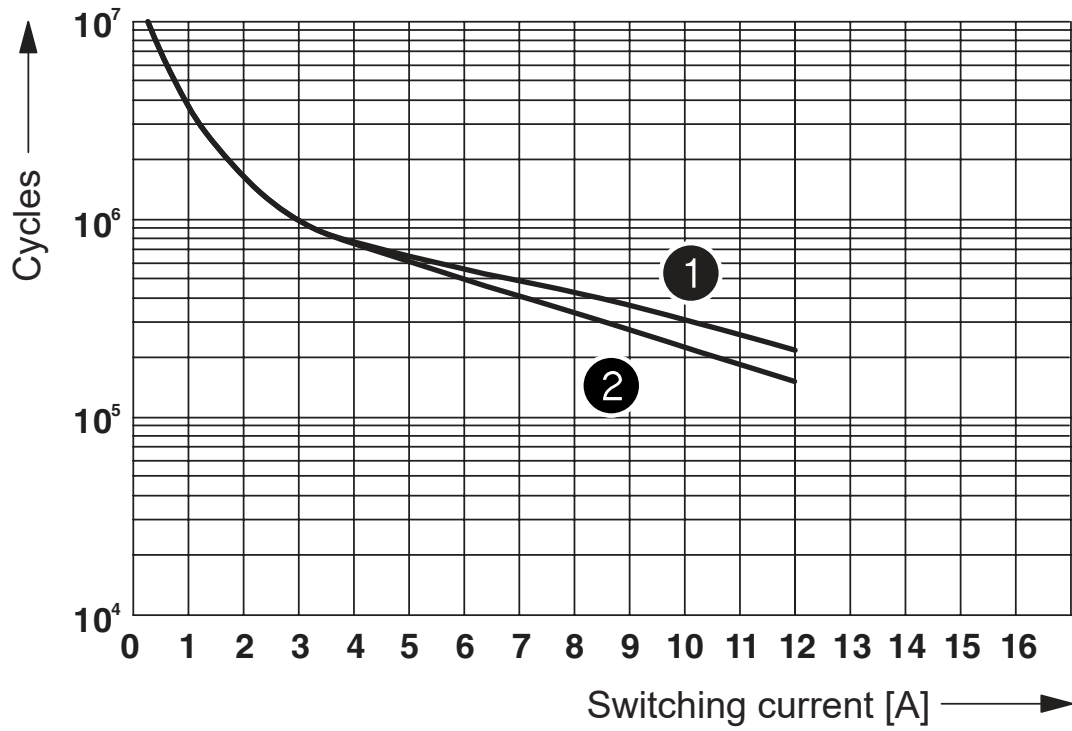




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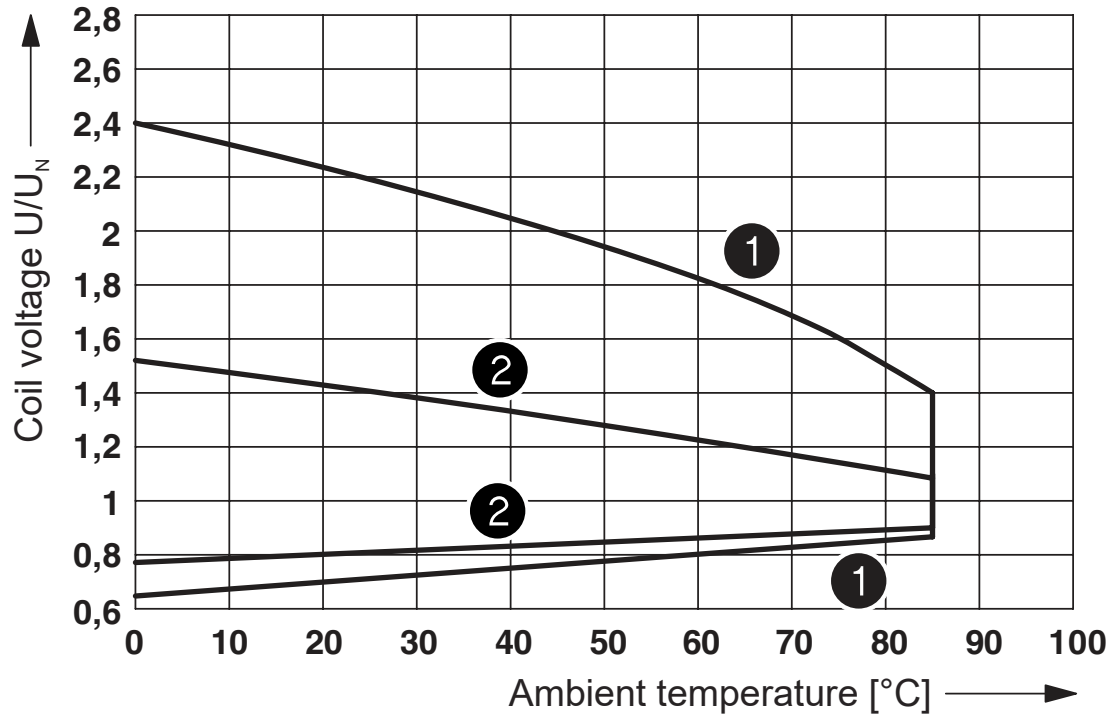
Diagram



- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Electrical service life

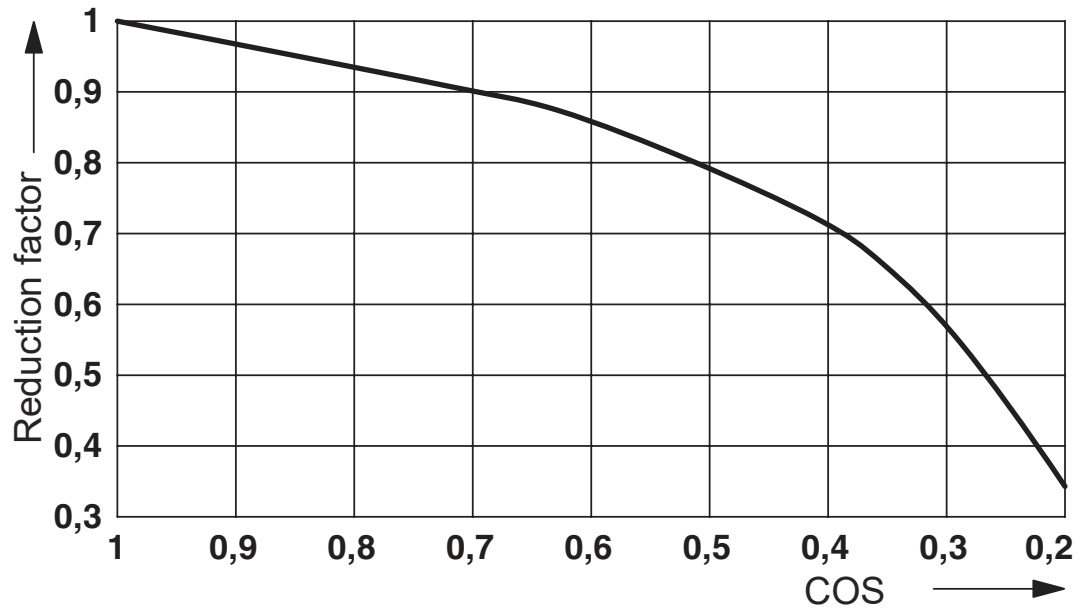
Diagram



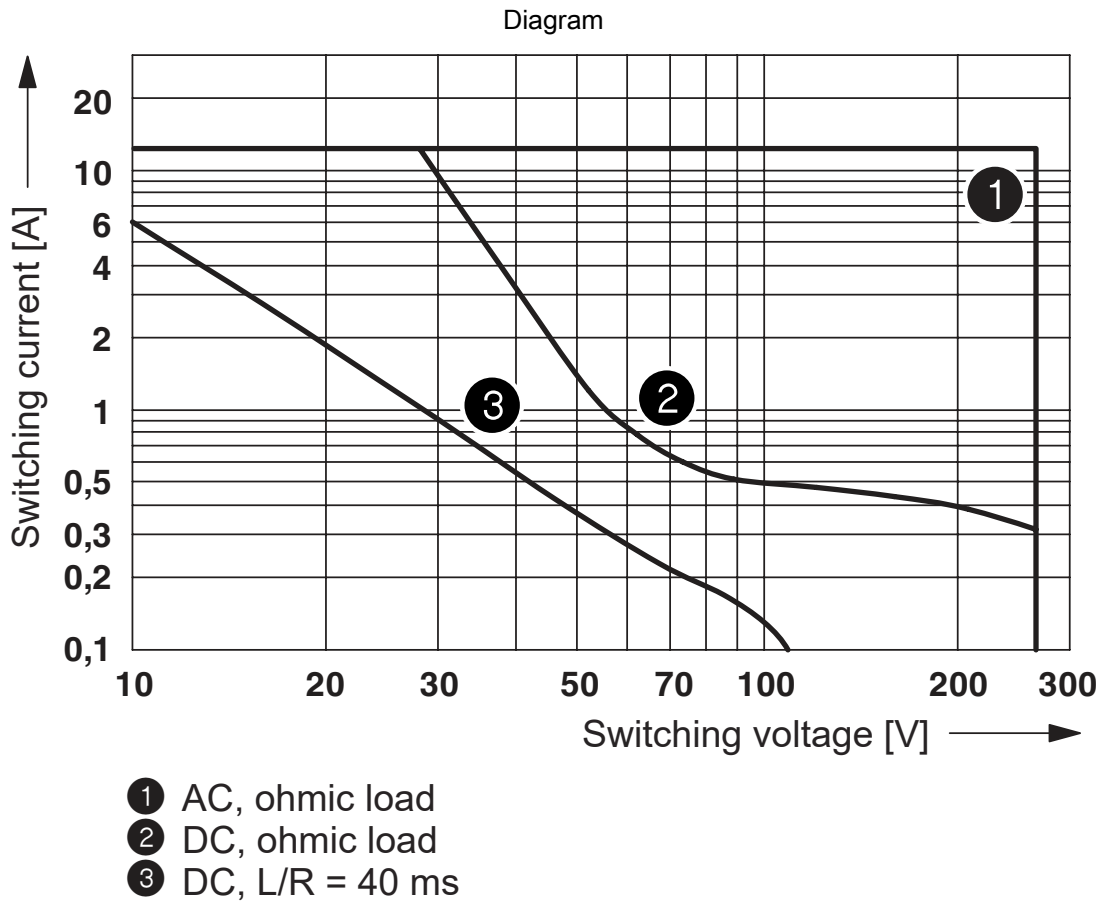
- ① DC coils
- ② AC coils

Operating voltage range of the relay

Diagram



Service life reduction factor with various cos phi



Interrupting rating

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## Classifications

### ECLASS

ECLASS-11.0

27371601

### ETIM

ETIM 7.0

EC001437

### UNSPSC

UNSPSC 21.0

39122334

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## Environmental product compliance

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

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## Accessories

### MP 1 - Marker labels

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Equipment marker, labeling surface 6 x 15 mm



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### EML (15X6)R YE - Label

0819288

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Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 15 x 6 mm, Number of individual labels: 2500

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## DB 50- 90 BU - Wire bridge

2821180

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Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: blue



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## DB 50- 90 BK - Wire bridge

2820916

<https://www.phoenixcontact.com/us/products/2820916>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: black





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## DB 50- 90 GY - Wire bridge

2820929

<https://www.phoenixcontact.com/us/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: gray



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