

# Relay Module - PR1-RSC3-LV- 24AC/21 - 2834339

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Preassembled relay modules with screw connection, consisting of: Relay socket plug-in miniature power relay with power contacts, plug-in display/interference suppression module and relay retaining bracket. Input voltage: 24 V AC, contacts: 1 PDT, 12 A

## Product Features

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

## Key commercial data

<b>package_quantity</b>	5
<b>GTIN</b>	4046356044226

## Technical data

### Note:

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

<b>Width</b>	16 mm
<b>Height</b>	78.5 mm
<b>Depth</b>	71 mm

### Ambient conditions

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

### Coil side

<b>Nominal input voltage <math>U_N</math></b>	24 V AC
<b>Nominal input current at <math>U_{IN}</math></b>	34 mA (at 50 Hz)
<b>Nominal input current at <math>U_{IN}</math></b>	26 mA (At 60 Hz)
<b>Typical response time</b>	3 ms ... 12 ms
<b>Typical release time range</b>	1.5 ms ... 14 ms
<b>Operating voltage display</b>	Yellow LED
<b>Protective circuit</b>	Varistor

### Contact side

<b>Contact type</b>	1 PDT
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## Technical data

### Contact side

<b>Contact material</b>	AgNi
<b>Maximum switching voltage</b>	250 V AC/DC
<b>Minimum switching voltage</b>	12 V (at 10 mA)
<b>Maximum inrush current</b>	30 A (300 ms)
<b>Min. switching current</b>	10 mA (at 12 V)
<b>Limiting continuous current</b>	12 A
<b>Interrupting rating (ohmic load) max.</b>	3000 W (for 250 V AC)
<b>Interrupting rating (ohmic load) max.</b>	50 W (at 110 V DC)
<b>Interrupting rating (ohmic load) max.</b>	80 W (at 220 V DC)
<b>Interrupting rating (ohmic load) max.</b>	288 W (at 24 V DC)
<b>Interrupting rating (ohmic load) max.</b>	(At 440 V AC)
<b>Interrupting rating (ohmic load) max.</b>	58 W (at 48 V DC)
<b>Interrupting rating (ohmic load) max.</b>	48 W (at 60 V DC)

### General

<b>Test voltage relay winding/relay contact</b>	4 kV (50 Hz, 1 min.)
<b>Operating mode</b>	100% operating factor
<b>Mechanical service life</b>	3 x 10 <sup>7</sup> cycles
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Standards/regulations</b>	IEC 62103
<b>Pollution degree</b>	3
<b>Surge voltage category</b>	III
<b>Mounting position</b>	Any
<b>Assembly instructions</b>	In rows with zero spacing

### Connection data

<b>Connection method</b>	Screw connection
<b>Conductor cross section solid min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	26
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102

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## classifications

### eCl@ss

eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371603

### ETIM

ETIM 2.0	EC001456
ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001456

### UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39121516

## accessories

### Marking material

MP 1 - 2833631



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## Device marking

EML (15X6) R YE - 0819288



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## Bridge

## Relay Module - PR1-RSC3-LV- 24AC/21 - 2834339

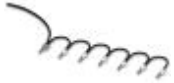
### accessories

DB 50- 90 BU - 2821180



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DB 50- 90 BK - 2820916



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DB 50- 90 GY - 2820929

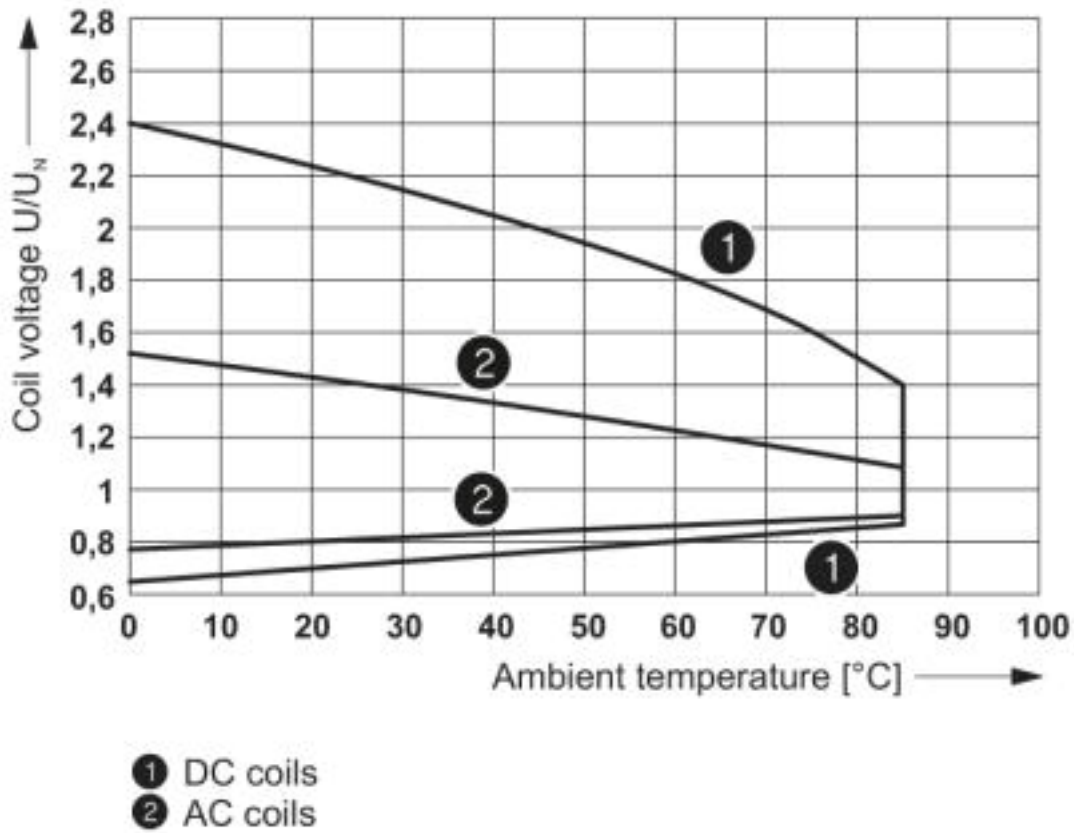


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Drawings

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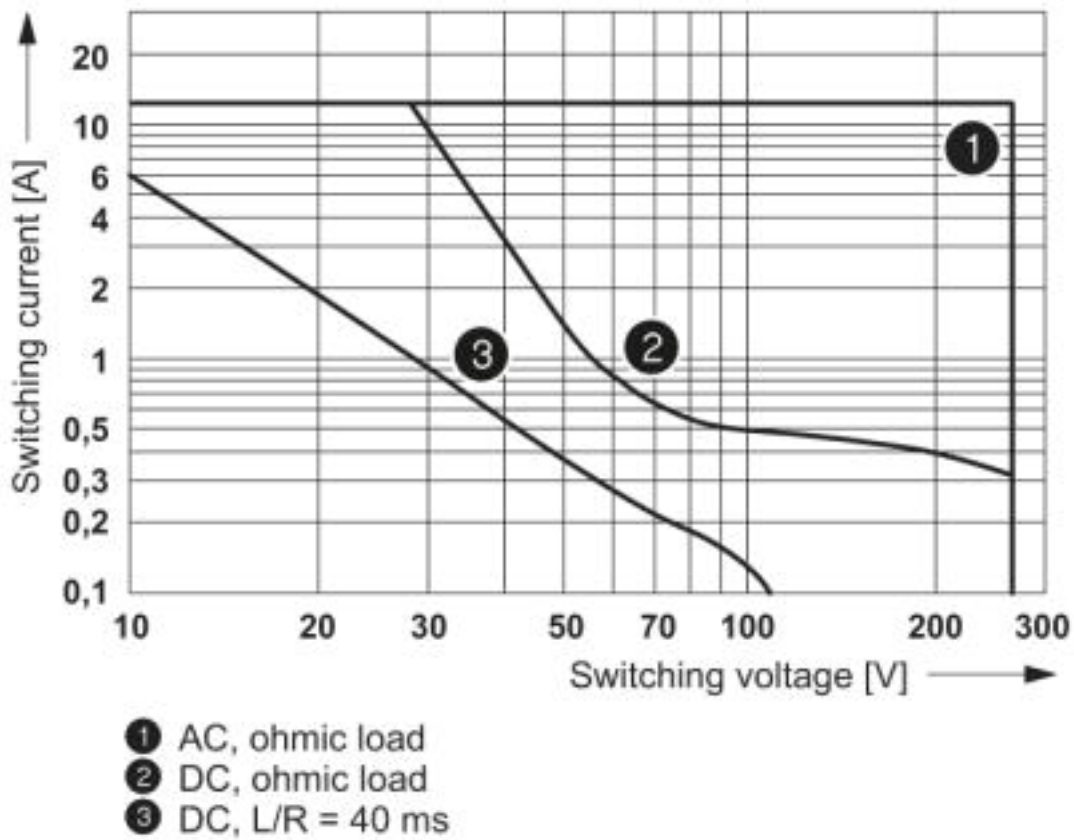
Diagram



Operating voltage range of the relay

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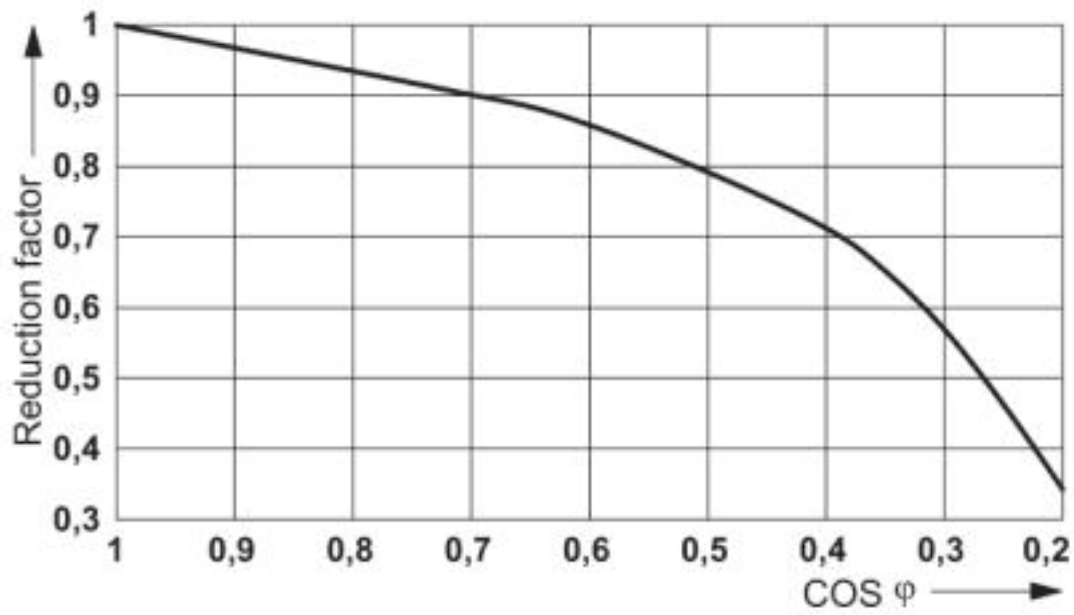
Diagram



Interrupting rating

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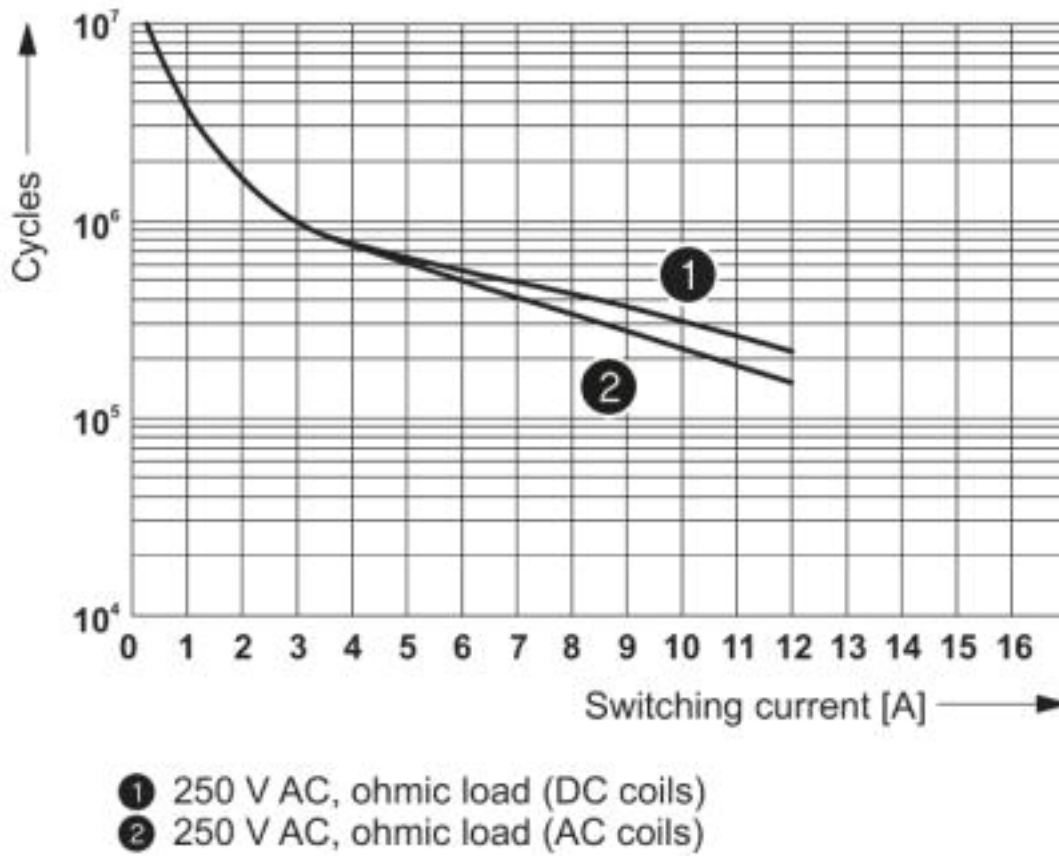
Diagram



Service life reduction factor with various cos phi

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Diagram

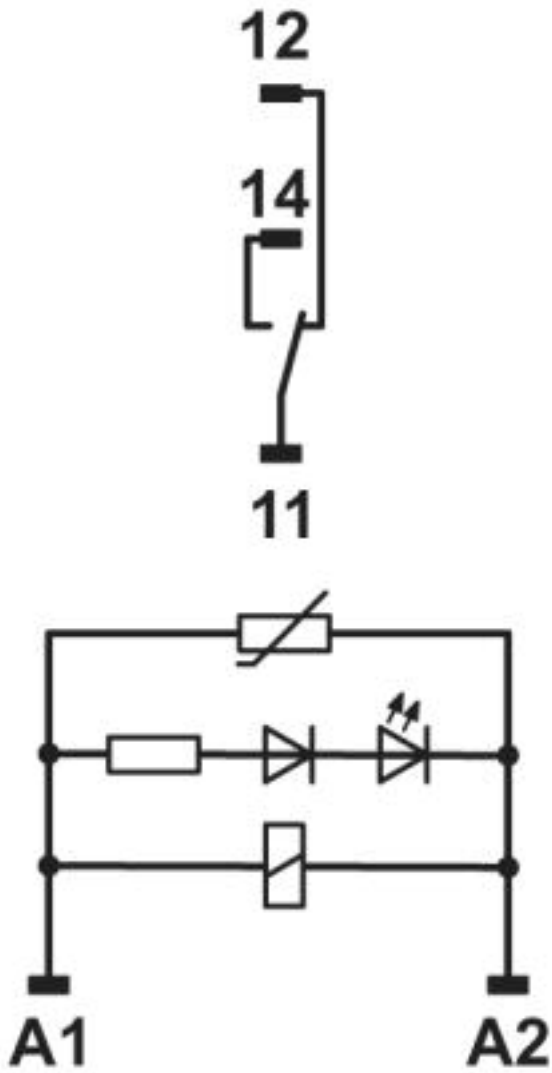


Electrical service life



# Relay Module - PR1-RSC3-LV- 24AC/21 - 2834339

Circuit diagram



AC coils

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