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Completely Assembled Relay Modules PR1-R... Including 1 or 2 PDT Miniature Relays – With Screw or Spring-Cage Connection

PR1-R... is a 16 mm wide, completely assembled, coupling relay series for universal use with screw or spring-cage connection, which consists of a relay base, a plug-in miniature power relay, a plug-in display module or interference suppression module, and a relay retaining bracket with eject function. Whether with free-wheeling diode or varistor, an LED is provided for status display on the interference suppression module. The relay base has a 1/3 story design and thus has a logical structure. It has coil and contact connections that are located opposite one another and thus meets the requirements of modern control cabinet concepts with clear isolation of control signals and load.

Advantages:

- Low ordering and storage costs
- High degree of flexibility and low maintenance costs through the use of plug-in relays

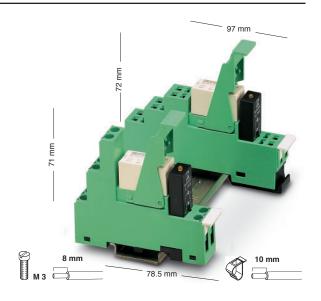
Input Voltages

PR1-R... is available on the coil side in popular industrial voltages.

Another advantage is the integrated input wiring, which consists of a status LED and a free-wheeling diode (DC types) or a varistor (AC types).

Rugged Miniature Relay

At the heart of the series is a rugged miniature power relay, which is one of the most modern and powerful models on the market. The types with hard gold-plated contacts are designed to provide increased contact reliability in low-current applications.



	Solid	Stranded		ı	U
	[mn	1 ²]	AWG	[A]	[V]
Screw connection	0.14 - 2.5	0.14 - 2.5	26 - 14	*	*
Spring-cage 0.2 - 1.5 0.2 - 1.5 25 - 16 * connection				*	
* The electrical data is determined by the relay.					

Completely Assembled Relay Modules With Screw Connection and Miniature PR1-RSC3...21.... (1 PDT Contact)

Description	Input Voltage U _N 1)
Pre-assembled coupling relay with screw connection, consisting of relay base, plug-in miniature power relay, and plug-in display/interference suppression module, for mounting onr, includes 5 removable MP1 markers	24 V DC 24 V AC 120 V AC 230 V AC
Pre-assembled coupling relay with screw connection, as above, but with solid gold coating on the contacts	24 V DC 24 V AC 120 V AC 230 V AC

Туре	Order No.	Pcs. Pkt.
Includes power contact relay PR1-RSC3-LDP-24DC/21 PR1-RSC3-LV-24AC/21 PR1-RSC3-LV-120AC/21 PR1-RSC3-LV-230AC/21	2834326 2834339 2834342 2834355	5 5 5 5
Includes hard gold-plated contacts PR1-RSC3-LDP-24DC/21AU PR1-RSC3-LV-24AC/21AU PR1-RSC3-LV-120AC/21AU PR1-RSC3-LV-230AC/21AU	2834368 2834371 2834384 2834397	5 5 5 5

Technical Data

Input Data

Nominal input voltage U_N

Permissible range with reference to U_N

Typical input current at U_N (for AC: 50/60 Hz) Typical response time at U_N (for AC: depending on phase relation) Typical release time at U_N (for AC: depending on phase relation) Input wiring:

24, 120, 230 V AC

250 V AC

Winding/contact

Output Data

Contact type

Contact material

Maximum switching voltage Minimum switching voltage Limiting continuous current

Maximum inrush current Minimum switching current

Maximum shutdown power, ohmic load: (For additional data, see INTERFACE catalog)

Minimum switching power

General Data

Test voltage

Ambient operating temperature range

Nominal operating mode Mechanical service life

Standards/specifications

Mounting position/mounting Connection type

24 V DC	24 V AC	120 V AC	230 V AC	
See diagram in the INTERFACE catalog				
19 mA	34/26 mA	9/7mA	6/5.5 mA	
8 ms	3 - 12 ms	3 - 12 ms	3 - 12 ms	
10 ms	1.5 - 14 ms	1.5 - 16 ms	2 - 22 ms	
Operating indicator and free-wheeling diode in the plug-in module				
Operating indicator and varistor in the plug-in module				

PR1-RSC321	PR1-RSC321AU
Single contact, 1 PDT	Single contact, 1 PDT
AgNi	AgÑi + 5 μm Au ²)
250 V AC/DC	30 V AC/36 V DC
12 V	100 mV
12 A	50 mA
30 A (300 ms)	50 mA
100 mA	1 mA
3000 VA	_
1.2 W	100 μW

4 kV, 50 Hz, 1 minute -25°C to +60°C 100% operating factor 3 x 10⁷ cycles

IEC 60 255/DIN VDE 0435 (in relevant parts), DIN EN 50 178/ VDE 0160 (in relevant parts), EN 60 730/DIN VDE 0631,

IEC 60 664/IEC 60 664 A/DIN VDE 0110, pollution degree 3,

Surge Voltage Category III

Any/can be mounted without spacing

Screw connection

Insulating housing version

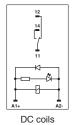
Polyamide PA fiber reinforced, PA-F

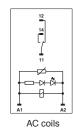
For torque of terminal block screws, see

INTERFACE catalog.

The dimensioning cross section (see INTERFACE catalog) refers to simple wires without ferrules.

Inductive loads must be attenuated with an effective protective circuit to protect inputs and outputs.





¹)Additional input voltages available on request.

²⁾ If the specified maximum values are exceeded, the gold coating will be damaged. In subsequent operation, the values of the AgNi contact will apply.

Completely Assembled Relay Modules With Screw Connection and Miniature

PR1-RSC3...2x21... (2 PDT Contacts)

Description	Input Voltage U _N 1)	Туре
Pre-assembled coupling relay with screw connection, consisting of relay base, plug-	24 V DC	Includes power contact relay PR1-RSC3-LDP-24DC/2x21
in miniature power relay, and plug-in display/	24 V AC	PR1-RSC3-LV-24AC/2x21
interference suppression module, for	120 V AC	PR1-RSC3-LV-120AC/2x21
mounting on, includes 5 removable MP1 markers	230 V AC	PR1-RSC3-LV-230AC/2x21
Pre-assembled coupling relay with screw	041// DO	Includes hard gold-plated con
connection, as above, but with solid gold	24 V DC 24 V AC	PR1-RSC3-LDP-24DC/2x21A PR1-RSC3-LV-24AC/2x21AU
coating on the contacts	120 V AC	PR1-RSC3-LV-120AC/2x21AU
	230 V AC	PR1-RSC3-LV-230AC/2x21A

Туре	Order No.	Pcs. Pkt.
Includes power contact relay PR1-RSC3-LDP-24DC/2x21 PR1-RSC3-LV-24AC/2x21 PR1-RSC3-LV-120AC/2x21 PR1-RSC3-LV-230AC/2x21	2834481 2834494 2834504 2834517	5 5 5 5 5
Includes hard gold-plated contacts PR1-RSC3-LDP-24DC/2x21AU PR1-RSC3-LV-24AC/2x21AU PR1-RSC3-LV-120AC/2x21AU PR1-RSC3-LV-230AC/2x21AU	2834520 2834533 2834546 2834559	5 5 5 5

Technical Data

Input Data

Nominal input voltage U_N Permissible range with reference to $U_{\mbox{\scriptsize N}}$

Typical input current at U_N (for AC: 50/60 Hz) Typical response time at U_N (for AC: depending on phase relation) Typical release time at U_N (for AC: depending on phase relation)

24 V DC 24, 120, 230 V AC

Output Data

Contact type Contact material

Maximum switching voltage Minimum switching voltage Limiting continuous current Maximum inrush current Minimum switching current

Maximum shutdown power, ohmic load: (For additional data, see INTERFACE catalog)

Minimum switching power

250 V AC

Winding/contact

Contact/contact

General Data Test voltage

Ambient operating temperature range Nominal operating mode Mechanical service life

Standards/specifications

Mounting position/mounting

²⁴ V DC 24 V AC 120 V AC 230 V AC See diagram in the INTERFACE catalog 34/26 mA 19 mA 9/7mA 6/5.5 mA 3 - 12 ms 3 - 12 ms 8 ms 3 - 12 ms 1.5 - 14 ms 1.5 - 16 ms 2 - 22 ms 10 ms Operating indicator and free-wheeling diode in the plug-in module Operating indicator and varistor in the plug-in module

PR1-RSC32x21	PR1-RSC32x21AU
Single contact, 2 PDT AqNi	Single contact, 2 PDT AqNi + 5 µm Au ²)
250 V AC/DC	30 V AC/36 V DC
5 V	100 mV
8 A	50 mA
15 A (300 ms)	50 mA
10 mA	1 mA
2000 VA	_
50 mW	100 μW

4 kV. 50 Hz. 1 minute 2.5 kV, 50 Hz, 1 minute -25°C to +60°C 100% operating factor 3 x 10⁷ cycles

IEC 60 255/DIN VDE 0435 (in relevant parts), DIN EN 50 178/ VDE 0160 (in relevant parts), EN 60 730/DIN VDE 0631, IEC 60 664/IEC 60 664 A/DIN VDE 0110, pollution degree 3,

Surge Voltage Category III Any/can be mounted without spacing

Screw connection

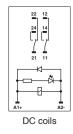
Insulating housing version

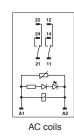
Polyamide PA fiber reinforced, PA-F Color: green

For torque of terminal block screws, see INTERFACE catalog.

The dimensioning cross section (see INTERFACE catalog) refers to simple wires without ferrules.

Inductive loads must be attenuated with an effective protective circuit to protect inputs and outputs.





¹)Additional input voltages available on request.

²⁾ If the specified maximum values are exceeded, the gold coating will be damaged. In subsequent operation, the values of the AgNi contact

Completely Assembled Relay Modules With Spring-Cage Connection and Miniature Relay PR1-RSP3...21.... (1 PDT Contact)

Description	Input Voltage U _N 1)	Туре	Order No.	Pcs. Pkt.
Pre-assembled coupling relay with spring-cage connection, consisting of relay base, plug-in miniature power relay, and plug-in display or protection module, for mounting onr, includes 5 removable MP1 markers	24 V DC 24 V AC 120 V AC 230 V AC	Includes power contact relay PR1-RSP3-LDP-24DC/21 PR1-RSP3-LV-24AC/21 PR1-RSP3-LV-120AC/21 PR1-RSP3-LV-230AC/21	2834407 2834410 2834423 2834436	5 5 5 5
Pre-assembled coupling relay with spring-cage connection, as above, but with solid gold coating on the contacts	24 V DC 24 V AC 120 V AC 230 V AC	Includes hard gold-plated contacts PR1-RSP3-LDP-24DC/21AU PR1-RSP3-LV-24AC/21AU PR1-RSP3-LV-120AC/21AU PR1-RSP3-LV-230AC/21AU	2834449 2834452 2834465 2834478	5 5 5 5

Technical Data

Input Data

Nominal input voltage U_N

Permissible range with reference to $U_{\mbox{\scriptsize N}}$

Typical input current at U_N (for AC: 50/60 Hz) Typical response time at U_N (for AC: depending on phase relation) Typical release time at U_N (for AC: depending on phase relation) 24 V DC

24, 120, 230 V AC

Output Data

Contact type

Contact material

Maximum switching voltage Minimum switching voltage

Limiting continuous current Maximum inrush current

Minimum switching current

Maximum shutdown power, ohmic load: (For additional data, see INTERFACE catalog)

Minimum switching power

Winding/contact

250 V AC

General Data

Test voltage

Ambient operating temperature range

Nominal operating mode

Mechanical service life Standards/specifications

Mounting position/mounting

Connection type

24 V DC 24 V AC 120 V AC 230 V AC See diagram in the INTERFACE catalog 19 mA 34/26 mA 9/7mA 6/5.5 mA 3 - 12 ms 3 - 12 ms 8 ms 3 - 12 ms 1.5 - 14 ms 1.5 - 16 ms 2 - 22 ms 10 ms Operating indicator and free-wheeling diode in the plug-in module Operating indicator and varistor in the plug-in module

PR1-RSP321 Single contact, 1 PDT AgNi 250 V AC/DC 12 V 10 A 30 A (300 ms) 100 mA 2500 VA	PR1-RSP321AU Single contact, 1 PDT AgNi + 5 μm Au ²) 30 V AC/36 V DC 100 mV 50 mA 50 mA 1 mA
1.2 W	100 μW

4 kV, 50 Hz, 1 minute -25°C to +60°C 100% operating factor 3 x 10⁷ cycles

IEC 60 255/DIN VDE 0435 (in relevant parts), DIN EN 50 178/ VDE

0160 (in relevant parts), EN 60 730/DIN VDE 0631, IEC 60 664/IEC 60 664 A/DIN VDE 0110, pollution degree 3, Surge Voltage Category III Any/can be mounted without spacing

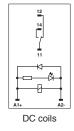
Spring-cage connection

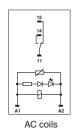
Insulating housing version

Polyamide PA fiber reinforced, PA-F Color: green

The dimensioning cross section (see INTERFACE catalog) refers to simple wires without ferrules.

Inductive loads must be attenuated with an effective protective circuit to protect inputs and outputs.





¹⁾ Additional input voltages available on request.

²⁾ If the specified maximum values are exceeded, the gold coating will be damaged. In subsequent operation, the values of the AgNi contact will apply.

Completely Assembled Relay Modules With Spring-Cage Connection and Miniature Relay PR1-RSP3...2x21... (2 PDT Contacts)

Description	Input Voltage U _N 1)	Туре	Order No.	Pcs. Pkt.
Pre-assembled coupling relay with spring-cage connection, consisting of relay base, plug-in miniature power relay, and plug-in display or protection module, for mounting onr, includes 5 removable MP1 markers	24 V DC 24 V AC 120 V AC 230 V AC	Includes power contact relay PR1-RSP3-LDP-24DC/2x21 PR1-RSP3-LV-24AC/2x21 PR1-RSP3-LV-120AC/2x21 PR1-RSP3-LV-230AC/2x21	2834562 2834575 2834588 2834591	5 5 5 5
Pre-assembled coupling relay with spring-cage connection, as above, but with solid gold coating on the contacts	24 V DC 24 V AC 120 V AC 230 V AC	Includes hard gold-plated contacts PR1-RSP3-LDP-24DC/2x21AU PR1-RSP3-LV-24AC/2x21AU PR1-RSP3-LV-120AC/2x21AU PR1-RSP3-LV-230AC/2x21AU	2834601 2834614 2834627 2834630	5 5 5 5

Technical Data

Input Data

Nominal input voltage U_N
Permissible range with reference to U_N
Typical input current at U_N (for AC: 50/60 Hz

Typical input current at U_N (for AC: 50/60 Hz)
Typical response time at U_N (for AC: depending on phase relation)
Typical release time at U_N (for AC: depending on phase relation)
Input wiring:

24 V DC

24. 120, 230 V AC

Output Data

Contact type Contact material

Maximum switching voltage Minimum switching voltage Limiting continuous current Maximum inrush current Minimum switching current

Maximum shutdown power, ohmic load: (For additional data, see INTERFACE catalog) Minimum switching power 250 V AC

Winding/contact

Contact/contact

.....

General Data Test voltage

Ambient operating temperature range Nominal operating mode Mechanical service life

Mounting position/mounting

Standards/specifications

24 V DC 24 V AC 120 V AC 230 V AC See diagram in the INTERFACE catalog 19 mA 34/26 mA 9/7mA 6/5.5 mA 3 - 12 ms 3 - 12 ms 8 ms 3 - 12 ms 1.5 - 14 ms 1.5 - 16 ms 2 - 22 ms 10 ms Operating indicator and free-wheeling diode in the plug-in module Operating indicator and varistor in the plug-in module

PR1-RSP32x21	PR1-RSP32x21AU
Single contact, 2 PDT	Single contact, 2 PDT
AgNi	AgNi + 5 μm Au ²)
250 V AC/DC	30 V AC/36 V DC
5 V	100 mV
8 A	50 mA
15 A (300 ms)	50 mA
10 mÀ	1 mA
2000 VA	_
50 mW	100 μW

4 kV, 50 Hz, 1 minute 2.5 kV, 50 Hz, 1 minute -25°C to +60°C 100% operating factor 3 x 10⁷ cycles IEC 60 255/DIN VDE 04

IEC 60 255/DIN VDE 0435 (in relevant parts), DIN EN 50 178/ VDE 0160 (in relevant parts), EN 60 730/DIN VDE 0631, IEC 60 664/IEC 60 664 A/DIN VDE 0110, pollution degree 3, Surge Voltage Category III

Any/can be mounted without spacing

Spring-cage connection

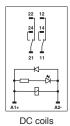
¹)Additional input voltages available on request.

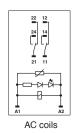
Insulating housing version

Polyamide PA fiber reinforced, PA-F Color: green

The dimensioning cross section (see INTERFACE catalog) refers to simple wires without ferrules.

Inductive loads must be attenuated with an effective protective circuit to protect inputs and outputs.





²⁾If the specified maximum values are exceeded, the gold coating will be damaged. In subsequent operation, the values of the AgNi contact will apply.