

# Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

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Pre-assembled relay module with push-in connection, consisting of: relay base with ejector and power contact relay. Contact type: 1 N/O contact. Input voltage: 24 V DC



## Key Commercial Data

Packing unit	10 STK
GTIN	
GTIN	4046356731997
Weight per Piece (excluding packing)	24.900 g
Custom tariff number	85364110
Country of origin	China

## Technical data

### Note

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

Width	6.2 mm
Height	93 mm
Depth	66 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	9 mA

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## Technical data

### Coil side

Typical response time	5 ms
Typical release time	8 ms
Coil voltage	24 V DC
Protective circuit	Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.22 W

### Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	10 A (4 s)
Limiting continuous current	6 A
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)
	1500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (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 input side

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 16

### Connection data output side

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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## Technical data

### Connection data output side

Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 16

### General

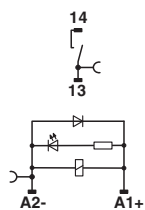
Test voltage relay winding/relay contact	4 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay socket)
	RT III (Relay)
Mechanical service life	Approx. 2x 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

### Standards and Regulations

Standards/regulations	DIN EN 50178
	IEC 62103
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	safe isolation
Degree of pollution	2
Overvoltage category	III

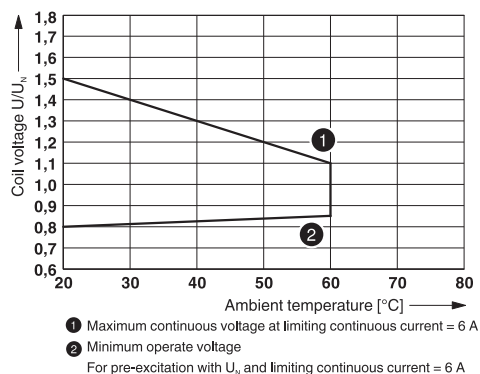
## Drawings

Circuit diagram



DC coils

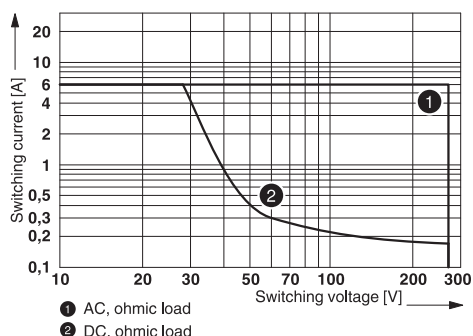
Diagram



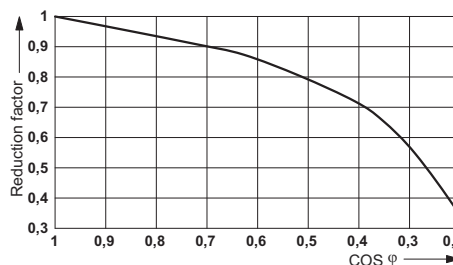
Operating voltage range

# Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

Diagram



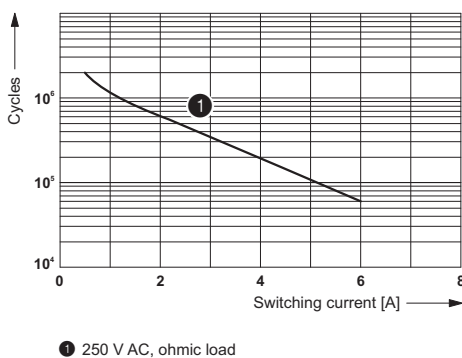
Diagram



## Interrupting rating

## Service life reduction factor

Diagram



## Electrical service life

## Articles in set

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

## Relay socket - RIF-0-BPT/1 - 2901873



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

# Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001437
ETIM 6.0	EC001437

### UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39122334

## Approvals

### Approvals

Approvals

EAC / GL / LR / EAC / PRS

Ex Approvals

### Approval details

EAC		EAC-Zulassung
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GL		<a href="http://www.gl-group.com/newbuilding/approvals/index.html">http://www.gl-group.com/newbuilding/approvals/index.html</a>	11247-14 HH
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## Approvals

LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	15/20011
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EAC			RU C- DE.A*30.B.01082
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PRS		<a href="http://www.prs.pl">http://www.prs.pl/</a>	TE/2108/880590/16
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## Accessories

### Accessories

#### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

## Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

### Accessories

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

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Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

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### Jumper

# Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

## Accessories

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 10.7 mm, Number of positions: 2, Color: red

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Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 16.9 mm, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 23.1 mm, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 29.3 mm, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 60.3 mm, Number of positions: 10, Color: red

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## Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

### Accessories

Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 122.3 mm, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 50, Color: red

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Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 2, Color: blue

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Plug-in bridge - FBS 3-6 BU - 3036945



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 3, Color: blue

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Plug-in bridge - FBS 4-6 BU - 3036958



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 4, Color: blue

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## Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

### Accessories

Plug-in bridge - FBS 5-6 BU - 3036961



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 5, Color: blue

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Plug-in bridge - FBS 10-6 BU - 3032198



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 10, Color: blue

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Plug-in bridge - FBS 20-6 BU - 3032208



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 20, Color: blue

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Plug-in bridge - FBS 50-6 BU - 3032211



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 50, Color: blue

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Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 2, Color: gray

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## Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

### Accessories

Plug-in bridge - FBS 3-6 GY - 3032240



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 3, Color: gray

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Plug-in bridge - FBS 4-6 GY - 3032279



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 4, Color: gray

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Plug-in bridge - FBS 5-6 GY - 3032266



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 5, Color: gray

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Plug-in bridge - FBS 10-6 GY - 3032253



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 10, Color: gray

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### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Test plug terminal block

## Relay Module - RIF-0-RPT-24DC/ 1 - 2903361

### Accessories

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, Color: silver

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### Spare parts

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

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Relay socket - RIF-0-BPT/1 - 2901873



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5