

# Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

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Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, and retaining bracket. Contact type: 2 PDTs. Input voltage: 24 V DC

## Why buy this product



## Key commercial data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 046356 732178
Weight per Piece (excluding packing)	99.99 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	31 mm
Height	96 mm
Depth	75 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
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## Technical data

### Coil side

Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	42 mA
Power dissipation for nominal condition	1.01 W
Typical response time	13 ms
Typical release time	14 ms
Operating voltage display	Yellow LED
Protective circuit	Damping diode

### Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 24 mA)
Maximum inrush current	30 A (20 ms, N/O contact)
Min. switching current	5 mA (at 24 V)
Limiting continuous current	10 A (see diagram)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	2500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	3 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)

### Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section AWG max.	16
Conductor cross section AWG min.	26

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## Technical data

### General

Test voltage relay winding/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay socket)
	RT I (Relay)
Mechanical service life	Approx. $2 \times 10^7$ cycles
Standards/regulations	DIN EN 50178
	IEC 62103
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

## Articles in set

### Relay socket - RIF-2-BPT/4X21 - 2900934



RIF-2... relay base, for industrial relay with 2 or 4 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

### Single relay - REL-IR2/LDP- 24DC/2X21 - 2903660



Plug-in industrial relay with power contacts, 2 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, input voltage: 24 V DC

### Retaining bracket - RIF-RH-2 - 2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

# Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

## 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

### ETIM

ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001437

### UNSPSC

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

## Approvals

### Approvals

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Approvals

CSA / EAC / LR / EAC

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Ex Approvals

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Approvals submitted

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### Approval details

CSA
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EAC
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# Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

## Approvals

LR

EAC

## 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

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Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

## Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

### Accessories

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

Plug-in bridge - FBS 2-6 - 3030336



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

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## Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

### Accessories

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



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

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



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

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Plug-in bridge - FBS 5-6 - 3030349



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

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Plug-in bridge - FBS 20-6 - 3030365



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

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## Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

### Accessories

Plug-in bridge - FBS 50-6 - 3032224



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

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### Terminal marking

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

Zack marker strip - ZB 15:UNBEDRUCKT - 0811972



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 15.2 mm, Lettering field: 10.5 x 15.1 mm

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### Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, Color: silver

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### Spare parts

Relay socket - RIF-2-BPT/4X21 - 2900934



RIF-2... relay base, for industrial relay with 2 or 4 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

# Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

## Accessories

Single relay - REL-IR2/LDP- 24DC/2X21 - 2903660



Plug-in industrial relay with power contacts, 2 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, input voltage: 24 V DC

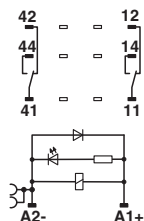
Retaining bracket - RIF-RH-2 - 2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

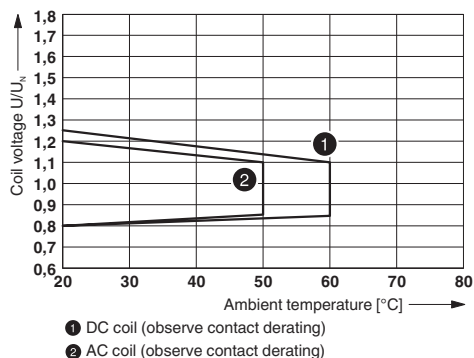
## Drawings

Circuit diagram



DC coils

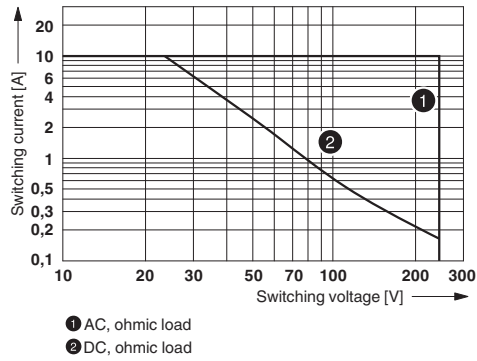
Diagram



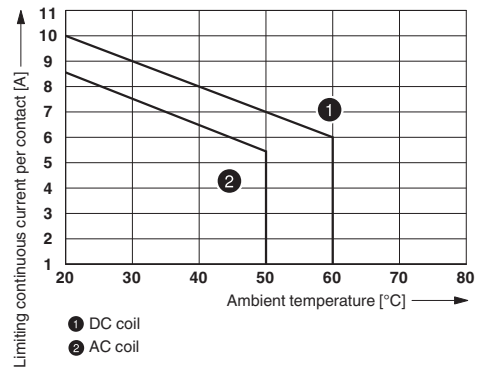
Operating voltage range

# Relay Module - RIF-2-RPT-LDP-24DC/2X21 - 2903315

Diagram

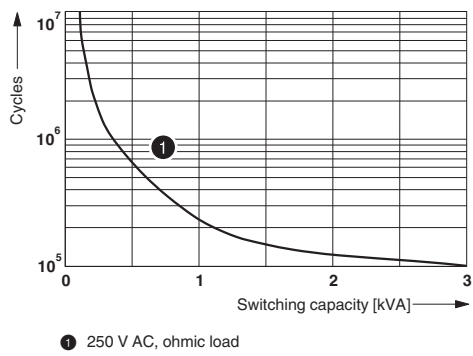


Diagram



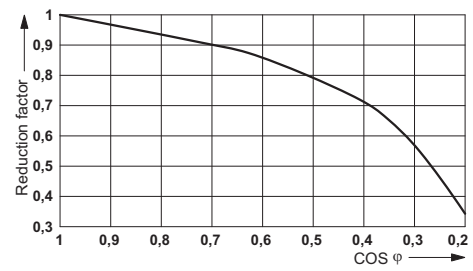
Interrupting rating

Diagram



Contact derating

Diagram



Electrical service life

Service life reduction factor