

# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

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Pre-assembled relay modules with push-in connection, consisting of: relay base with ejector and multi-layer gold contact relay. Input voltage: 24 V DC, 1 PDT

## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4046356732963

## Technical data

### Dimensions

<b>Width</b>	6.2 mm
<b>Height</b>	93 mm
<b>Depth</b>	78 mm

### Ambient conditions

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

### Coil side

<b>Nominal input voltage <math>U_N</math></b>	24 V DC
<b>Input voltage range in reference to <math>U_N</math></b>	(refer to the diagram)
<b>Nominal input current at <math>U_{IN}</math></b>	9 mA
<b>Typical response time</b>	5 ms
<b>Typical release time</b>	8 ms
<b>Operating voltage display</b>	Yellow LED
<b>Protective circuit</b>	Damping diode

### Contact side

<b>Contact type</b>	1 PDT
<b>Contact material</b>	AgSnO, hard gold-plated
<b>Maximum switching voltage</b>	30 V AC
<b>Maximum switching voltage</b>	36 V DC
<b>Minimum switching voltage</b>	100 mV (at 10 mA)
<b>Maximum inrush current</b>	50 mA
<b>Min. switching current</b>	1 mA
<b>Limiting continuous current</b>	50 mA

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## Technical data

### Contact side

Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (24 V (DC13))
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (230 V (AC 15))
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
Interrupting rating (ohmic load) max.	20 W (at 48 V DC)
Interrupting rating (ohmic load) max.	18 W (at 60 V DC)
Interrupting rating (ohmic load) max.	23 W (at 110 V DC)
Interrupting rating (ohmic load) max.	40 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)

### Connection data

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

### 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 (Relaissockel)
Degree of protection	RT III (relay)
Mechanical service life	Approx. 2 x 10 <sup>7</sup> cycles
Standards/regulations	DIN EN 50178
Standards/regulations	IEC 62103
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III

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## Technical data

### General

<b>Mounting position</b>	Any
<b>Assembly instructions</b>	In rows with zero spacing

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371603
<b>eCl@ss 5.1</b>	27371603
<b>eCl@ss 6.0</b>	27371603
<b>eCl@ss 7.0</b>	27371603
<b>eCl@ss 8.0</b>	27371603

### ETIM

<b>ETIM 3.0</b>	EC001456
<b>ETIM 4.0</b>	EC001456
<b>ETIM 5.0</b>	EC001437

### UNSPSC

<b>UNSPSC 6.01</b>	30211917
<b>UNSPSC 7.0901</b>	39121516
<b>UNSPSC 11</b>	39121516
<b>UNSPSC 12.01</b>	39121516
<b>UNSPSC 13.2</b>	39121516

## accessories

### End block

CLIPFIX 35 - 3022218



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### Test plug terminal block

# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

## accessories

MPS-MT - 0201744



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## Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



## Relay Module - RIF-0-RPT-24DC/21AU - 2903368

### accessories

MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



### Terminal marking

ZB 6:UNBEDRUCKT - 1051003



### Bridge

FBS 2-6 - 3030336



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## accessories

FBS 3-6 - 3030242



FBS 4-6 - 3030255



FBS 5-6 - 3030349



FBS 10-6 - 3030271



FBS 20-6 - 3030365



FBS 50-6 - 3032224



# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

## accessories

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FBS 2-6 BU - 3036932



FBS 3-6 BU - 3036945



FBS 4-6 BU - 3036958



FBS 5-6 BU - 3036961



FBS 10-6 BU - 3032198



# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

## accessories

FBS 20-6 BU - 3032208



FBS 50-6 BU - 3032211



FBS 2-6 GY - 3032237



FBS 3-6 GY - 3032240



FBS 4-6 GY - 3032279



FBS 5-6 GY - 3032266





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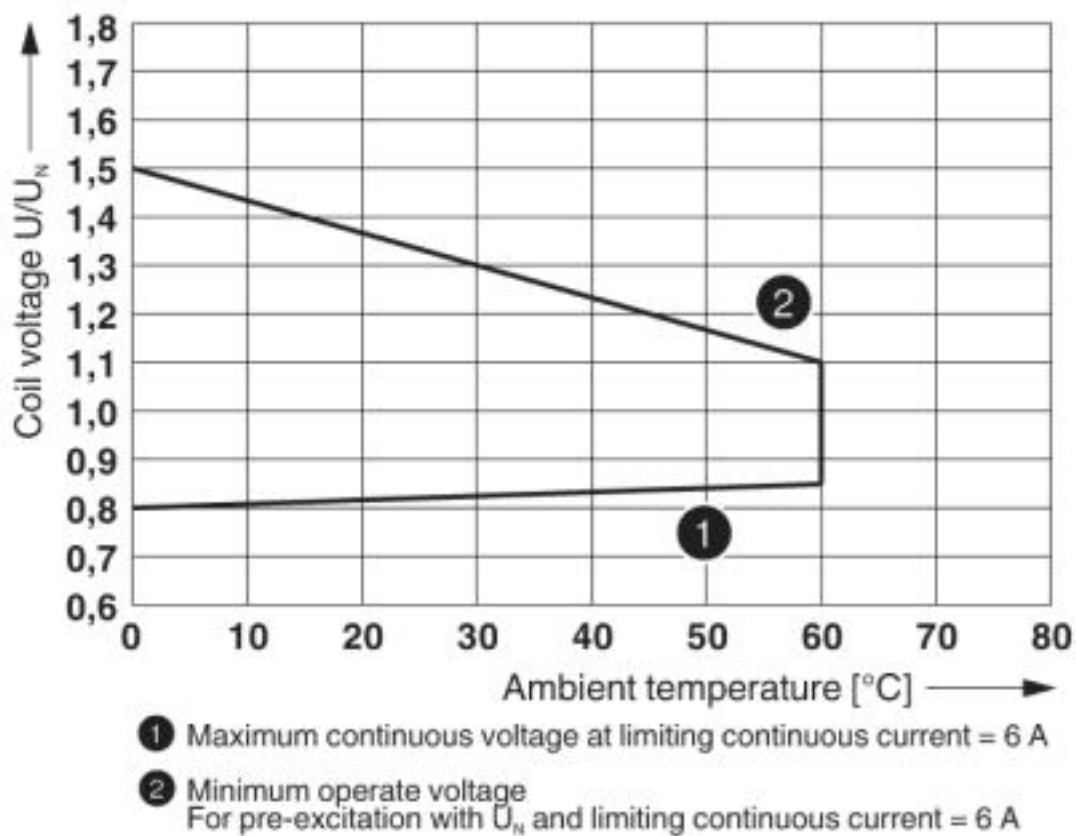
accessories

FBS 10-6 GY - 3032253



## Drawings

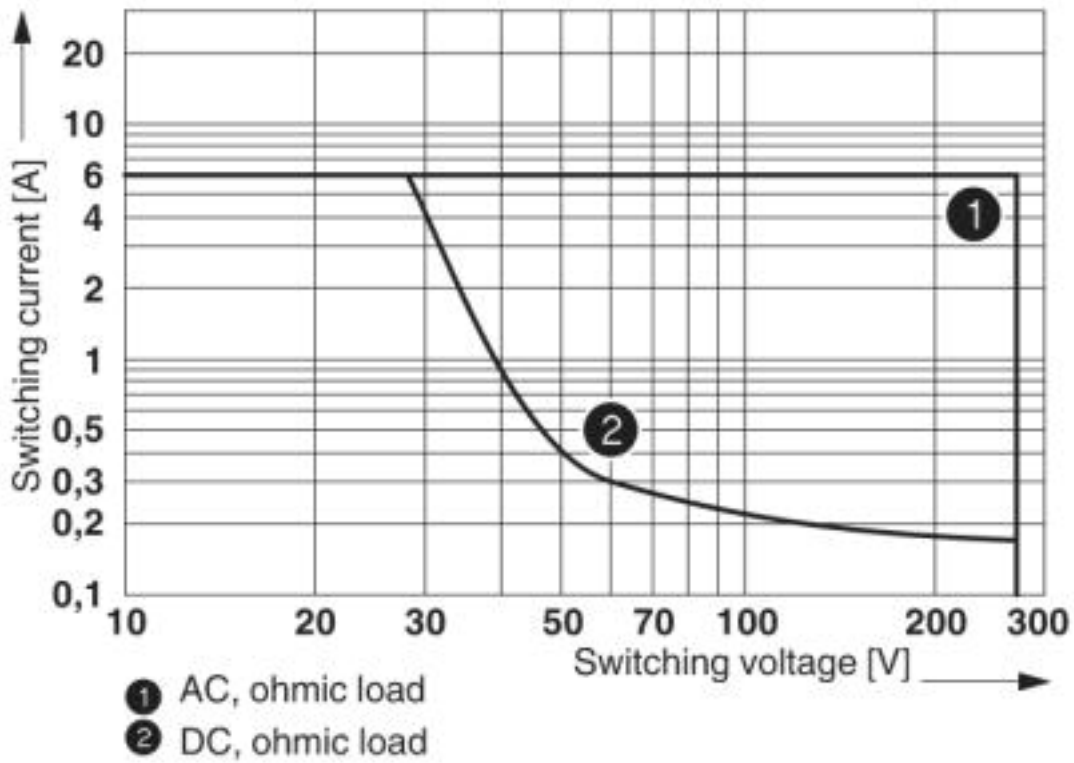
Diagram



Operating voltage range

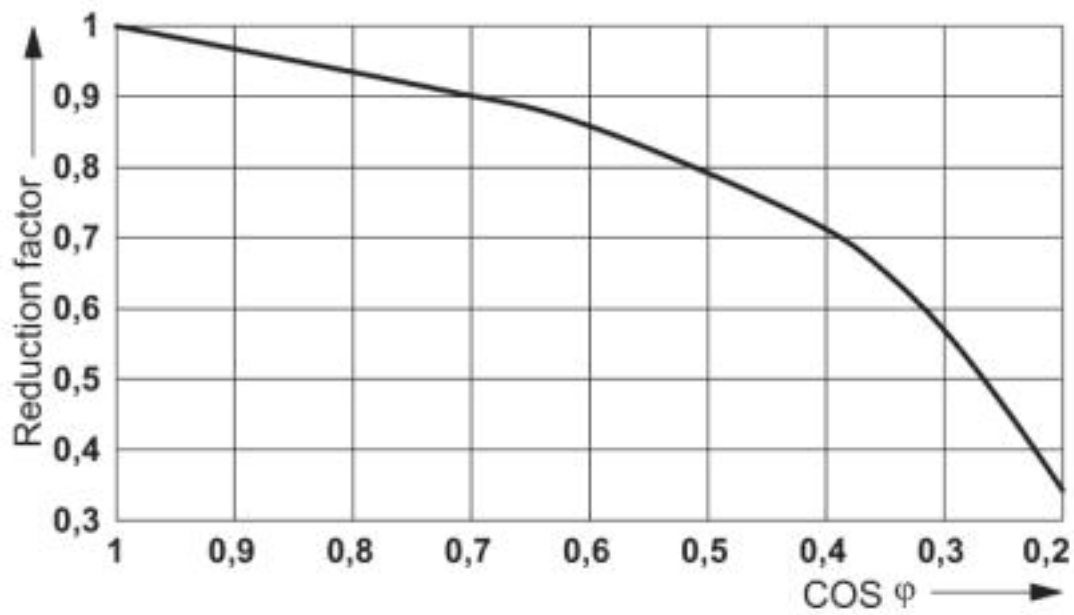
# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

Diagram



Interrupting rating

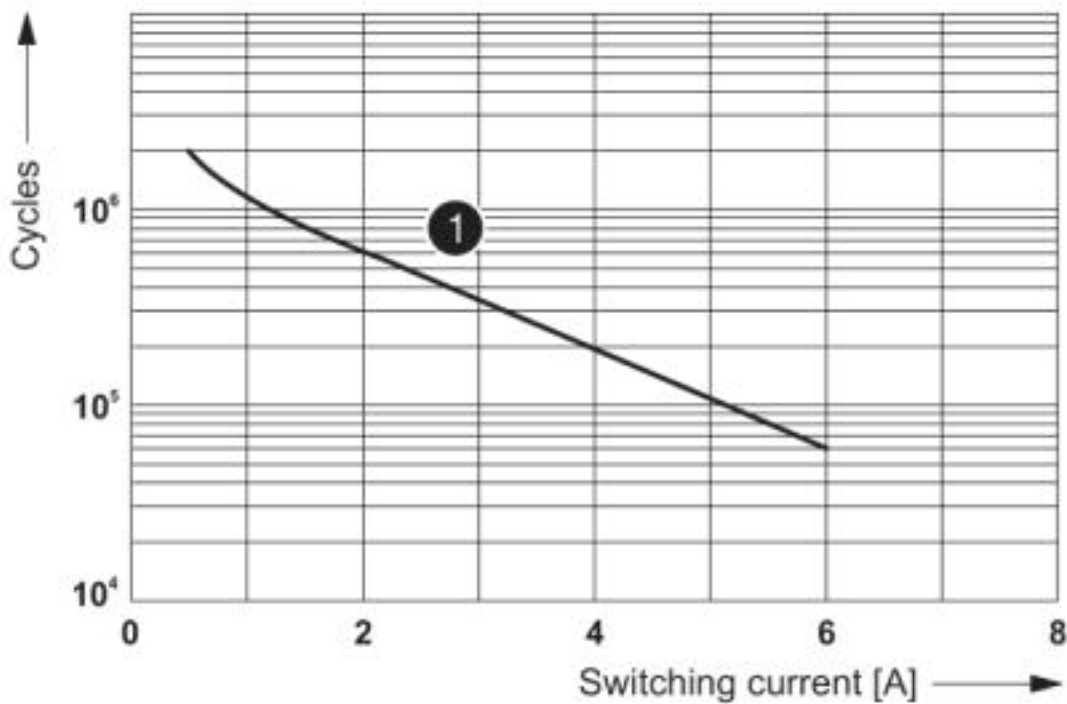
Diagram



Service life reduction factor

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Diagram

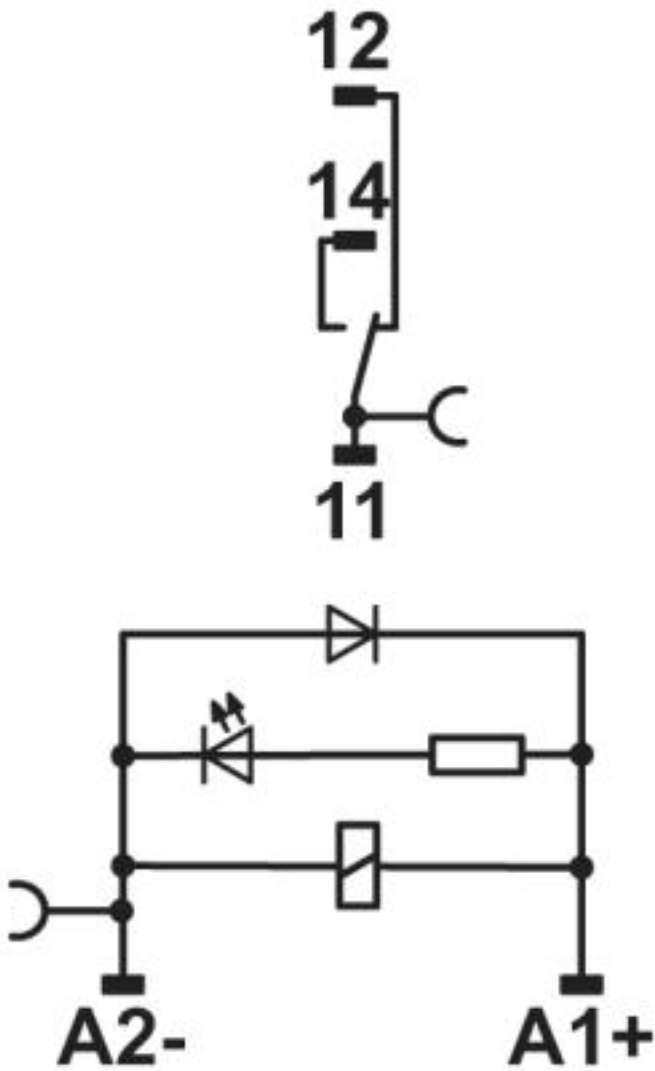


① 250 V AC, ohmic load

Electrical service life

# Relay Module - RIF-0-RPT-24DC/21AU - 2903368

Circuit diagram



DC coils

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