

# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

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Pre-assembled relay module with screw connection, consisting of: relay base with ejector and multi-layer gold contact relay. Contact type: 1 changeover contact. Input voltage: 24 V DC

## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4046356731911

## 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>	6.2 mm
<b>Height</b>	84 mm
<b>Depth</b>	82 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>	see diagram
<b>Typical input current at <math>U_N</math></b>	9 mA
<b>Typical response time</b>	5 ms
<b>Typical release time</b>	8 ms
<b>Coil voltage</b>	24 V DC
<b>Protective circuit</b>	Damping diode
<b>Operating voltage display</b>	Yellow LED
<b>Power dissipation for nominal condition</b>	0.22 W

### Contact side

<b>Contact type</b>	1 PDT
<b>Type of switch contact</b>	Single contact
<b>Contact material</b>	AgSnO, hard gold-plated

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## Technical data

### Contact side

Maximum switching voltage	30 V AC
Maximum switching voltage	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Min. switching current	1 mA
Maximum inrush current	50 mA
Limiting continuous current	50 mA
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))

### Contact side (with destroyed gold layer)

Contact material	AgSnO
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.2 A (at 110 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.1 A (at 220 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 24 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 120 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 230 V, AC15)

### Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	7 mm
Conductor cross section solid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section AWG	20 ... 12
Torque	0.5 Nm

### Connection data output side

Connection name	Contact side
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## Technical data

### Connection data output side

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section solid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section AWG	20 ... 12
Torque	0.5 Nm

### 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)
Degree of protection	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
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	safe isolation
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
China RoHS	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437

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## Classifications

### ETIM

<b>ETIM 4.0</b>	EC001437
<b>ETIM 5.0</b>	EC001437
<b>ETIM 6.0</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>	39122334

## Accessories

### End block

CLIPFIX 35 - 3022218



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### Test plug terminal block

MPS-MT - 0201744



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### Insulating sleeve

MPS-IH WH - 0201663



# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Accessories

MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Accessories

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### Terminal marking

ZB 6:UNBEDRUCKT - 1051003



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### Jumper

FBS 2-6 - 3030336



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FBS 3-6 - 3030242



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FBS 4-6 - 3030255



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FBS 5-6 - 3030349



# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Accessories

FBS 10-6 - 3030271



FBS 20-6 - 3030365



FBS 50-6 - 3032224



FBS 2-6 BU - 3036932



FBS 3-6 BU - 3036945



FBS 4-6 BU - 3036958



# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Accessories

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FBS 5-6 BU - 3036961



FBS 10-6 BU - 3032198



FBS 20-6 BU - 3032208



FBS 50-6 BU - 3032211



FBS 2-6 GY - 3032237





# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Accessories

FBS 3-6 GY - 3032240



FBS 4-6 GY - 3032279



FBS 5-6 GY - 3032266

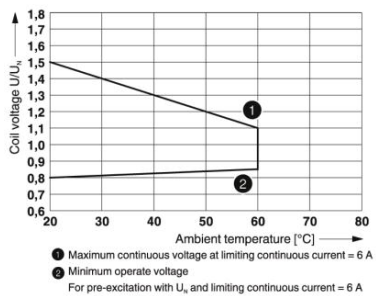


FBS 10-6 GY - 3032253



## Drawings

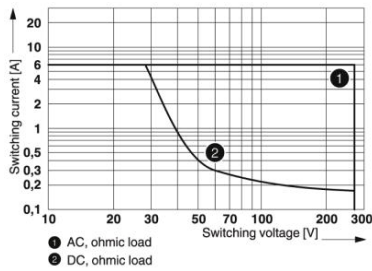
### Diagram



Operating voltage range

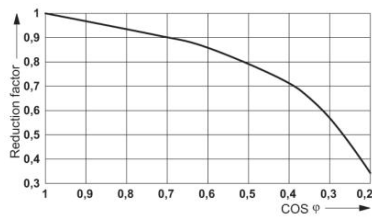
# Relay Module - RIF-0-RSC-24DC/21AU - 2903372

## Diagram



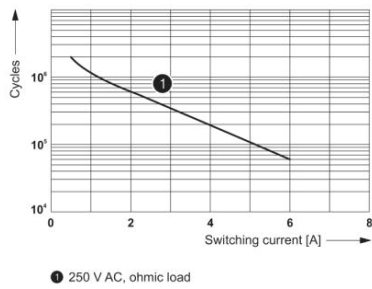
## Interrupting rating

### Diagram



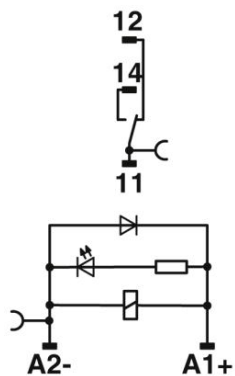
## Service life reduction factor with various cos phi

### Diagram



## Electrical service life

### Circuit diagram



## DC coils

