

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



2903372

<https://www.phoenixcontact.com/us/products/2903372>

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

## Product description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

## Commercial data

Item number	2903372
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C465
Product key	CK651F
Catalog page	Page 320 (C-5-2019)
GTIN	4046356731911
Weight per piece (including packing)	32.063 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85364110
Country of origin	CZ

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## Set consists of

### RIF-0-BSC/21 - Relay base

2900957

<https://www.phoenixcontact.com/us/products/2900957>



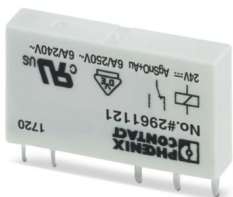
RIF-0... relay base, for miniature power relay with 1 changeover contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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### REL-MR- 24DC/21AU - Single relay

2961121

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

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## Technical data

### Product properties

Product type	Relay Module
Product family	RIFLINE complete
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Insulation	safe isolation
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### Insulation characteristics

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	19.2 V DC ... 36 V DC (20 °C)
Input voltage range in reference to $U_N$	see diagram
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	9 mA
Typical response time	5 ms
Typical release time	8 ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated

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Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (12 V)
Interrupting rating (ohmic load) max.	1.2 W (24 V DC)
Utilization category CB Scheme (IEC 60947-5-1)	AC15, 3 A/250 V (N/O contact)
	AC15, 1 A/250 V (N/C contact)
	DC13, 1.5 A/24 V (N/O contact)
	DC13, 0.2 A/110 V (N/O contact)
	DC13, 0.1 A/220 V (N/O contact)

Switching: when the gold layer is destroyed

Note	<b>the following values are applicable if a gold layer is destroyed</b>	
Contact material	AgSnO	
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)
		20 W (at 48 V DC)
		18 W (at 60 V DC)
		23 W (at 110 V DC)
		40 W (at 220 V DC)
Switching capacity	1500 VA (for 250 V AC)	
	2 A (at 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

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section rigid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	20 ... 12 (solid)
	20 ... 14 (flexible)
Tightening torque	0.5 Nm ... 0.6 Nm

## Dimensions

Width	6.2 mm
Height	84 mm
Depth	82 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2 (Housing)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT III (Relay)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## Standards and regulations

Standards/regulations	IEC 60947-5-1
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## Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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## Classifications

### ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

### ETIM

ETIM 9.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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