

# PLC-RSC- 24UC/2X21/FG - Relay Module



2910536

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PLC-INTERFACE, consisting of a relay base and plug-in safety relay with force-guided contacts in accordance with DIN EN 61810-3, Screw connection, 2 changeover contacts, forcibly actuated, Bridge rectifier, Input voltage: 24 V AC/DC

## Product Description

The force-guided coupling relay module is approved for industrial control equipment in accordance with UL 508 (cULus listed). The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 1 N/O contact / 1 N/C contact.

## Commercial Data

Item number	2910536
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	CK6
Product Key	CK621C
Catalog Page	Page 370 (C-5-2019)
GTIN	4055626486871
Weight per Piece (including packing)	82.8 g
Weight per Piece (excluding packing)	82.8 g
Customs tariff number	85364190
Country of origin	DE

# PLC-RSC- 24UC/2X21/FG - Relay Module



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## Set consists of

REL-SR- 24DC/2X21/FG - Safety relays

2908777

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Safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact type: 2 changeover contacts. The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 1 N/O contact / 1 N/C contact.

## Technical Data

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Forcibly guided contacts
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles
B <sub>10d</sub>	600000 Cycles (AC1; 250 V / 6 A; 1 NO)
	900000 Cycles (AC1; 250 V / 3 A; 1 NO)
	1800000 Cycles (AC1; 250 V / 1,5 A; 1 NO)
	180000 Cycles (AC15; 250 V / 3 A; 1 NO)
	560000 Cycles (AC15; 250 V / 2 A; 1 NO)
	4600000 Cycles (AC15; 250 V / 0,75 A; 1 NO)
	360000 Cycles (DC13; 24 V / 3 A; 1 NO)
	740000 Cycles (DC13; 24 V / 1,5 A; 1 NO)
	4200000 Cycles (DC13; 24 V / 0,75 A; 1 NO)

### Insulation characteristics

Insulation	Safe isolation, reinforced insulation
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### Insulation characteristics: Standards/regulations

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.72 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)

### Standards/regulations

Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V AC/DC
Input voltage range	20.9 V AC/DC ... 32.4 V AC/DC (20 °C)
Input voltage range in reference to U <sub>N</sub>	see diagram
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	30 mA
Typical response time	3 ms ... 15 ms

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Typical release time range	3 ms ... 15 ms
Coil voltage	24 V DC
Protective circuit	Bridge rectifier
Operating voltage display	Yellow LED

## Output data

### Switching

Contact type	2 changeover contacts, forcibly actuated
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	6 A
Min. switching current	10 mA (5 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	288 W (48 V DC)
	88 W (110 V DC)
	110 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity min.	150 mW
Switching capacity	3 A (24 V, DC13)
	3 A (230 V, AC15)
Force-guided contacts in accordance with EN 61810-3	Type B

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

## Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

## Environmental and real-life conditions

### Ambient conditions

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Degree of protection (Relay)	RT II (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Altitude	≤ 2000 m

## Approvals

### UL, USA

Identification	UL 508
	UL 508 Recognized

### UL, USA/Canada

Identification	UL 508
	UL 508 Recognized

### Corrosive gas test

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

## Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60947-5-1
	DIN EN 61810-3

## Mounting

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

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