

# RIF-RPT-LDP-24DC/2X2/2X1/AU/FG - Relay Module



1148699

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Relay module with Push-in connection, consisting of: relay base with status LED, freewheeling diode and retaining bracket, safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact type: 2 N/O contacts and 2 N/C contacts, input voltage: 24 V DC

## Commercial Data

Item number	1148699
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK652R
GTIN	4063151142704
Weight per Piece (including packing)	74.7 g
Weight per Piece (excluding packing)	71.336 g
Customs tariff number	85364110
Country of origin	CN

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## Technical Data

### Product properties

Product type	Relay Module
Product family	RIFLINE complete
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles
$B_{10d}$	810000 Cycles (AC15, 250 V / 0.5 A, 1 NO)
	170000 Cycles (AC15; 250 V / 2 A; 1 NO)
	318000 Cycles (DC13, 24 V / 1 A, 1 NO)
	208000 Cycles (DC13, 24 V / 2 A, 1 NO)

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation Safe isolation, reinforced insulation and 6 kV between coil and contact circuit and between contacts 11-12 and 13-14, 41-42 to 23-24, 33-34
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage ()	1.5 kV <sub>rms</sub> (50 Hz, 1 min., open contact)
Test voltage ()	2.5 kV <sub>rms</sub> (50 Hz, 1 min., between contacts: 7, 8 to 9, 10)
Test voltage ()	4 kV <sub>rms</sub> (50 Hz, 1 min., between contacts: all others)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC (Input/output)
Rated surge voltage	6 kV (Input/output)

Short-circuit protection device

Current	10 A (RT28-32)
Voltage	500 V (SCPD)
Short-circuit current	1 kA (conditional short-circuit current)

### Input data

Coil side

Nominal operating voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	See derating diagram
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	17 mA
Input power dissipation for $U_N$	0.4 W
Typical response time	10 ms

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Typical release time	15 ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Status display	Yellow LED

## Output data

### Switching

Contact type	2 N/O contacts, 2 N/C contacts
Type of switch contact	Single contact
Contact material	AgSnO <sub>2</sub> , hard gold-plated
Maximum switching voltage	250 V AC 300 V DC
Minimum switching voltage	10 V (5 mA)
Limiting continuous current	6 A
Maximum inrush current	35 A (20 ms)
Min. switching current	5 mA (10 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC) 100 W (48 V DC) 75 W (60 V DC) 55 W (110 V DC) 50 W (220 V DC) 1500 VA (250 V AC)
Force-guided contacts in accordance with EN 61810-3	Type A
Utilization category CB Scheme (IEC 60947-5-1)	AC15, 2 A/240 V (N/O contact) DC13, 2 A/24 V (N/O contact)

## Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve) 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid) 26 ... 16 (flexible)

## Dimensions

Width	21 mm
Height	96 mm
Depth	67 mm

## Material specifications

Flammability rating according to UL 94	V2 (Housing)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

## Approvals

### UKCA

Certificate	UKCA-compliant
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## Standards and regulations

### All specifications in accordance with the standard

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

### Air clearances and creepage distances between the power circuits

Standards/regulations	EN 61810-1
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## Mounting

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

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