

RIF-0-RPT-12DC/21AU - Relay Module



2903369

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Pre-assembled relay modules with Push-in connection, consisting of: relay base with ejector and multi-layer gold contact relay. Contact type: 1 changeover contact. Input voltage: 12 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	2903369
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK652F
Catalog Page	Page 318 (C-5-2019)
GTIN	4046356732970
Weight per Piece (including packing)	27.53 g
Weight per Piece (excluding packing)	27.5 g
Customs tariff number	85364110
Country of origin	CZ

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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. 2×10^7 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	0.19 W
Test voltage (Winding/contact)	4 kV _{rms} (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	12 V DC
Input voltage range	9.6 V DC ... 18 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	16 mA
Typical response time	5 ms
Typical release time	8 ms
Coil voltage	12 V DC
Protective circuit	Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact 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	the following values are applicable if a gold layer is destroyed	
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	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
	0.14 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 16

Dimensions

Width	6.2 mm
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Height	93 mm
Depth	78 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 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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