

RIF-RPT-LDP-24DC/1X2/3X1/AU/FG - Relay Module



1148703

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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: 3 N/O contacts and 1 N/C contact, input voltage: 24 V DC

Commercial Data

Item number	1148703
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK652R
GTIN	4063151142513
Weight per Piece (including packing)	76.33 g
Weight per Piece (excluding packing)	69.15 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 _{rms} (50 Hz, 1 min., winding/contact)
Test voltage ()	1.5 kV _{rms} (50 Hz, 1 min., open contact)
Test voltage ()	2.5 kV _{rms} (50 Hz, 1 min., between contacts: 7, 8 to 9, 10)
Test voltage ()	4 kV _{rms} (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
Typical input current at U _N	17 mA
Input power dissipation for U _N	0.4 W
Typical response time	10 ms
Typical release time	15 ms
Coil voltage	24 V DC

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Protective circuit	Freewheeling diode
Status display	Yellow LED

Output data

Switching

Contact type	3 N/O contacts, 1 N/C contact
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	polarized
Contact material	AgSnO ₂ , 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 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) 0.14 mm ² ... 1 mm ² (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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