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

RoHS COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 142704
GTIN	4063151142704
Weight per Piece (excluding packing)	84.000 g
Custom tariff number	85364110
Country of origin	China

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	21 mm
Height	96 mm
Depth	67 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - RIF-RPT-LDP-24DC/2X2/2X1/AU/FG - 1148699

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	RT II (Relay)
	IP54 (Installation location)

Coil side

Nominal input 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
Typical response time	10 ms
Typical release time	15 ms
Coil voltage	24 V DC
Protective circuit	Damping diode
Status display	Yellow LED

Contact side

Contact type	2 N/O contacts, 2 N/C contacts
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Force-guided contacts in accordance with EN 61810-3	Type A
Maximum switching voltage	250 V AC
	300 V DC
Minimum switching voltage	10 V (5 mA)
Min. switching current	5 mA (10 V)
Maximum inrush current	35 A (20 ms)
Limiting continuous current	6 A
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)
Switching capacity	2 A (24 V, DC13)
	3 A (230 V, AC15)

General

Test voltage	4 kV_{rms} (50 Hz, 1 min., winding/contact)
	1.5 kV_{rms} (50 Hz, 1 min., open contact)
	2.5 kV_{rms} (50 Hz, 1 min., between contacts: 7, 8 to 9, 10)
	4 kV_{rms} (50 Hz, 1 min., between contacts: all others)

Relay Module - RIF-RPT-LDP-24DC/2X2/2X1/AU/FG - 1148699

Technical data

General

Operating mode	100% operating factor
Flammability rating according to UL 94	V2 (Housing)
Mechanical service life	approx. 10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing
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)

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
	EN 61810-1
Rated insulation voltage	250 V AC

Relay Module - RIF-RPT-LDP-24DC/2X2/2X1/AU/FG - 1148699

Technical data

Standards and Regulations

Rated surge voltage	4 kV
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
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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

RoHS COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 142513
GTIN	4063151142513
Weight per Piece (excluding packing)	76.000 g
Custom tariff number	85364110
Country of origin	China

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	21 mm
Height	96 mm
Depth	67 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - RIF-RPT-LDP-24DC/1X2/3X1/AU/FG - 1148703

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	RT II (Relay)
	IP54 (Installation location)

Coil side

Nominal input 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
Typical response time	10 ms
Typical release time	15 ms
Coil voltage	24 V DC
Protective circuit	Damping diode
Status display	Yellow LED

Contact side

Contact type	3 N/O contacts, 1 N/C contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Force-guided contacts in accordance with EN 61810-3	Type A
Maximum switching voltage	250 V AC
	300 V DC
Minimum switching voltage	10 V (5 mA)
Min. switching current	5 mA (10 V)
Maximum inrush current	35 A (20 ms)
Limiting continuous current	6 A
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)
Switching capacity	2 A (24 V, DC13)
	3 A (230 V, AC15)

General

Test voltage	4 kV_{rms} (50 Hz, 1 min., winding/contact)
	1.5 kV_{rms} (50 Hz, 1 min., open contact)
	2.5 kV_{rms} (50 Hz, 1 min., between contacts: 7, 8 to 9, 10)
	4 kV_{rms} (50 Hz, 1 min., between contacts: all others)

Relay Module - RIF-RPT-LDP-24DC/1X2/3X1/AU/FG - 1148703

Technical data

General

Operating mode	100% operating factor
Flammability rating according to UL 94	V2 (Housing)
Mechanical service life	approx. 10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing
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)

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
	EN 61810-1
Rated insulation voltage	250 V AC

Relay Module - RIF-RPT-LDP-24DC/1X2/3X1/AU/FG - 1148703

Technical data

Standards and Regulations

Rated surge voltage	4 kV
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
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values