

Power PCB Relay RT2

2 pole 8 A, DC and AC-coil



F0149-B

- 2 C/O or 2 N/O contacts
- Sensitive coil 400 mW
- DC- or AC-coil
- 5 kV / 10 mm coil-contact
- Protection class II (VDE 0700)
- Height 15.7 mm
- Sockets with PCB-type or screw-type terminals

Applications

Domestic appliances, heating control, emergency lighting, modems



Technical data of approved types on request

Contact data

Configuration	2 C/O contact or 2 N/O contact
Type of contact	single contact
Rated current	8 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	2000 VA
Make current (max. 4 s at duty cycle 10%)	15 A
Contact material	AgNi 90/10, AgNi 90/10gold plated

Contact life

Type	Load	Operations	Standard
RT 424	4 A, 230 Vac, $\cos\phi=0.6$	1.5×10^5	Standard
RT 424	6 (2) A, 250 Vac, on the N/O- N/C contact		VDE 0631
RT 424	1/2 hp / 240 Vac, 1/4 hp / 120 Vac	6×10^3	UL 508

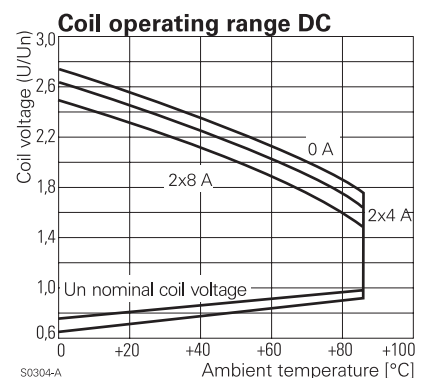
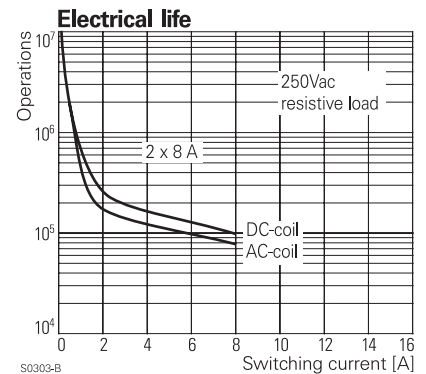
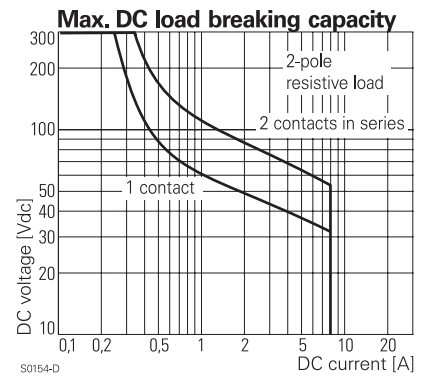
Coil data

Nominal voltage	DC coil	5...110 Vdc
	AC coil	24...230 Vac
Nominal coil power	DC coil	400 mW
	AC coil	0.75 VA
Operate category		2 / b

Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	12.7	$62 \pm 10\%$	80.0
006	6	4.2	0.6	15.3	$90 \pm 10\%$	66.7
012	12	8.4	1.2	30.6	$360 \pm 10\%$	33.3
024	24	16.8	2.4	61.2	$1440 \pm 10\%$	16.7
048	48	33.6	4.8	122.4	$5520 \pm 10\%$	8.7
060	60	42.0	6.0	153.0	$7340 \pm 12\%$	8.1
110	110	77.0	11.0	280.5	$26600 \pm 12\%$	4.1

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request



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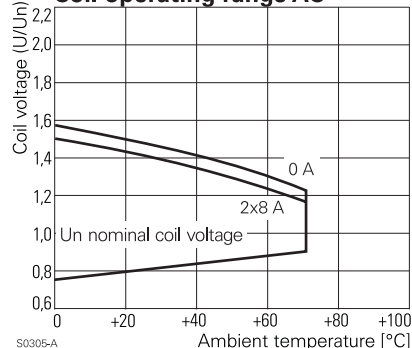
2 pole 8 A, DC and AC-coil

Coil versions, AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Maximum voltage Vac	Coil resistance Ω	Coil current mA
524	24	18.0	3.6	36.0	350 \pm 10%	31.6
615	115	86.3	17.3	172.5	8100 \pm 15%	6.6
730	230	172.5	34.5	345.0	32500 \pm 15%	3.2

All figures are given for coil without preenergization, at ambient temperature +20°C

Coil operating range AC



Insulation

Dielectric strength	coil-contacts	5000 V _{rms}
	open contact circuit	1000 V _{rms}
	adjacent contacts	2500 V _{rms}
Clearance / creepage		10 / 10 mm
Insulation to IEC 664/VDE 0110 (1/89)		
	Voltage rating	250 V
	Pollution degree	3
	Overvoltage category	III
Insulation to VDE 0110b (2/79)		
	Insulation category / reference voltage	C / 250

Other data

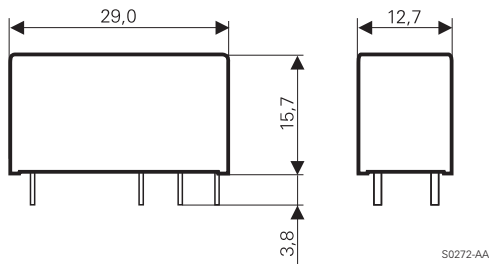
Ambient temperature		-40...+70 °C
Mechanical life	DC-coil	>30x10 ⁶ operations
	AC-coil	>5x10 ⁶ operations
Max. switching rate at rated- / minimum load		6 min ⁻¹ / 1200 min ⁻¹
Operate- / release time DC-coil		typ. 7 / 2 ms
Bounce time N/O contact/N/C contact		typ. 1 / 3 ms
Vibration resistance N/O / N/C contact		20 / 5 g, 30...300 Hz
Shock resistance (destruction)		100 g
Protection category		IP40 (IP67 on request)
Relay weight		13 g
Packaging unit		20 / 500 pcs.
Accessories		see accessories RT

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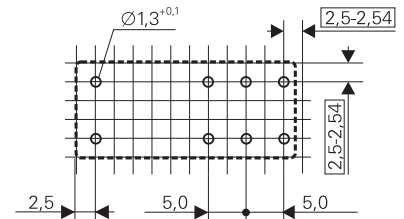
Dimensions

Dimensions in mm

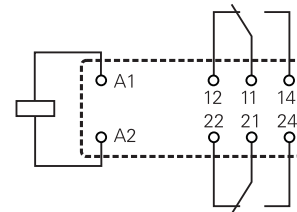


PCB layout / terminal assignment

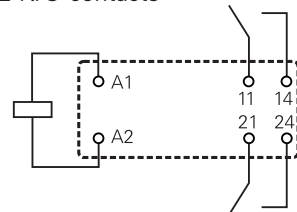
View on solder pins
Dimensions in mm



2 C/O contacts



2 N/O contacts



Ordering key

Type	R T	4			
Version	4 8 A, pinning 5 mm, flux-tight				
	E 8 A, pinning 5 mm, washable				
Contacts	2 2 C/O contacts	4 2 N/O contacts			
Contact material	4 AgNi 90/10	5 AgNi 90/10 gold plated (for type RT42.)			
Coil	Coil code: please refer to coil versions table				

Preferred types in bold print

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