

Power PCB Relay RT2

2 pole 8 A, DC and AC-coil



F0149-B

Features

- 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
- 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 90/10 gold plated

Contact ratings

Type	Load	Operations	Standard
RT 424	4 A, 230 Vac, $\cos\phi=0.6$	1.5×10^5	
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

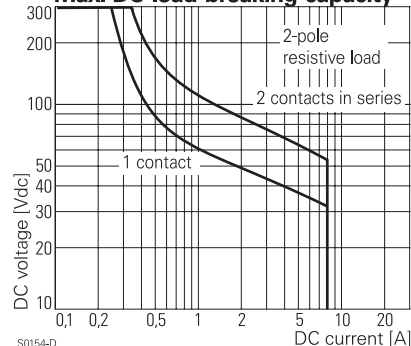
Nominal voltage	DC coil	5...110 Vdc
	AC coil	24...230 Vac
Nominal coil power	DC coil	400 mW
	AC coil	0.75 VA
Operate category		2 / b

Coil versions, DC-coil

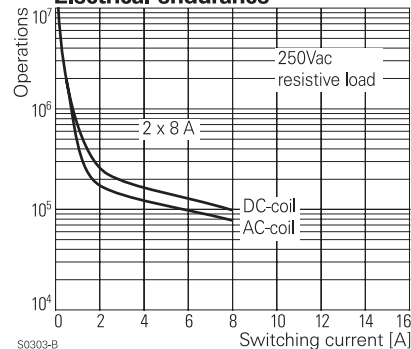
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	12.7	$62 \pm 10\%$	80.0
006	6	4.2	0.6	15.3	$90 \pm 10\%$	66.7
012	12	8.4	1.2	30.6	$360 \pm 10\%$	33.3
024	24	16.8	2.4	61.2	$1440 \pm 10\%$	16.7
048	48	33.6	4.8	122.4	$5520 \pm 10\%$	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

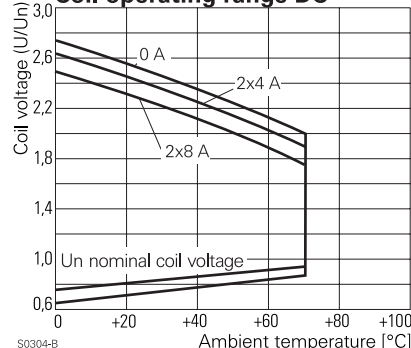
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



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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

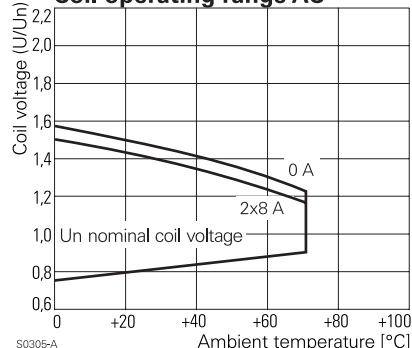
Insulation

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 60664		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250

Other data

Flammability class according to UL 94	V-0
Coil insulation system according to UL 1446	Class F
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
Category of protection (IEC 61810)	RT II - flux proof, RT III - wash tight
Relay weight	13 g
Packaging unit	20 / 500 pcs.
Accessories	see accessories RT

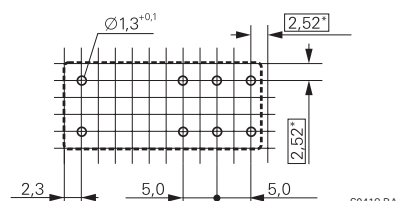
Coil operating range AC



S0305-A

PCB layout / terminal assignment

View on solder pins
Dimensions in mm

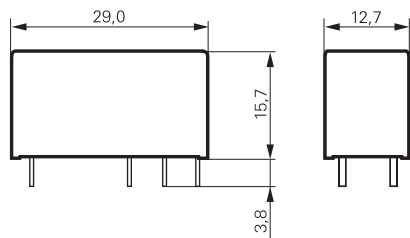


S0418-BA

*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

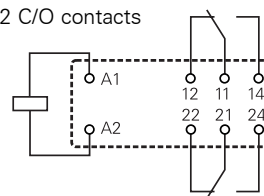
Dimensions

Dimensions in mm



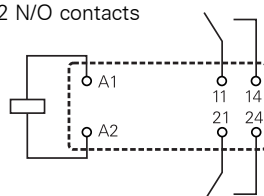
S0272-AA

2 C/O contacts



S0163-BJ

2 N/O contacts



S0163-BK

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Product key

Type	R	T	4				
Version	4 8 A, pinning 5 mm, flux proof E 8 A, pinning 5 mm, wash tight						
Contacts	2 2 C/O contacts 4 2 N/O contacts						
Contact material	4 AgNi 90/10 5 AgNi 90/10 gold plated						
Coil	Coil code: please refer to coil versions table						

Preferred types in bold print

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT424005	8 A pinning 5 mm flux proof	2 C/O contacts	AgNi 90/10	DC-coil	5 Vdc	5-1393243-9
RT424006					6 Vdc	6-1393243-1
RT424012					12 Vdc	6-1393243-3
RT424024					24 Vdc	6-1393243-8
RT424048					48 Vdc	7-1393243-0
RT424060					60 Vdc	7-1393243-3
RT424110				AC-coil	110 Vdc	7-1393243-5
RT424524					24 Vac	7-1393243-6
RT424615					115 Vac	7-1393243-8
RT424730					230 Vac	7-1393243-9
RT425005	8 A pinning 5 mm wash tight	2 C/O contacts	AgNi 90/10 gold plated	DC-coil	5 Vdc	8-1393243-0
RT425012					12 Vdc	8-1393243-2
RT425024					24 Vdc	8-1393243-5
RT425524				AC-coil	24 Vac	9-1393243-1
RT425615					115 Vac	9-1393243-2
RT425730					230 Vac	9-1393243-3
RT444012		2 N/O contacts	AgNi 90/10	DC-coil	12 Vdc	9-1393243-7
RT444024					24 Vdc	9-1393243-9
RTE24005		2 C/O contacts			5 Vdc	0-1393243-1
RTE24006					6 Vdc	0-1393243-2
RTE24012					12 Vdc	0-1393243-4
RTE24024					24 Vdc	1-1393243-0
RTE24048					48 Vdc	1-1393243-1
RTE24060					60 Vdc	1-1393243-3
RTE24110				AC-coil	110 Vdc	1-1393243-4
RTE24524					24 Vac	1-1393243-5
RTE24615					115 Vac	1-1393243-7
RTE24730					230 Vac	1-1393243-8
RTE25005			AgNi 90/10 gold plated	DC-coil	5 Vdc	1-1393243-9
RTE25012					12 Vdc	2-1393243-0
RTE25024					24 Vdc	2-1393243-1