

# Power PCB Relay RT2

2 pole 8 A, DC and AC-coil



## 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 (VDE 0700)
- Height 15.7 mm
- Sockets with PCB-type or screw-type terminals

## Applications

Domestic appliances, heating control, emergency lighting, modems

F0149-B



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, $\cos\phi=0.6$	$1.5 \times 10^5$	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	$6 \times 10^3$	UL 508

## Coil data

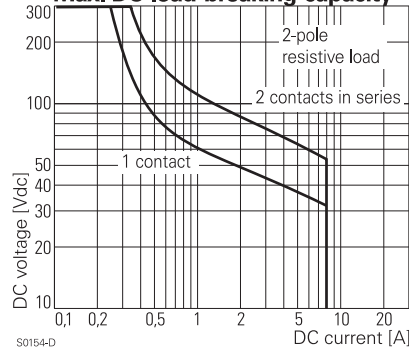
Nominal voltage	DC coil	AC coil	5...110 Vdc	24...230 Vac
Nominal coil power	DC coil	AC coil	400 mW	0.75 VA
Operate category	2 / b			

## Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance $\Omega$	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

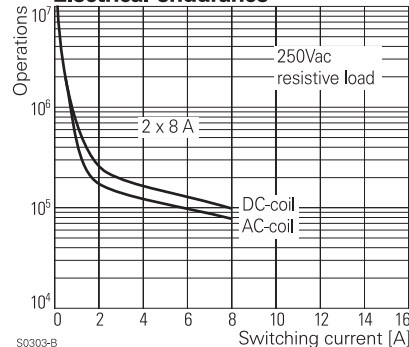
All figures are given for coil without preenergization, at ambient temperature +20°C Other coil voltages on request

## Max. DC load breaking capacity



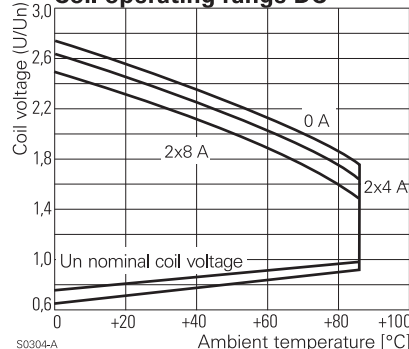
S0154-D

## Electrical endurance



S0303-B

## Coil operating range DC



S0304-A

# Power PCB Relay RT2

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 $\Omega$	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

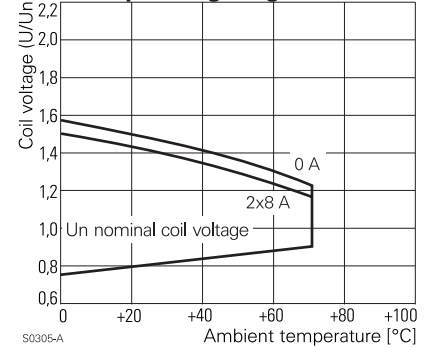
## Insulation

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

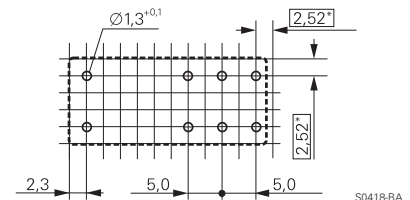
Flammability class according to UL 94	V-0
Coil insulation system according to UL 1446	Class F
Ambient temperature	-40...+70 °C
Mechanical life	DC-coil >30x10 <sup>6</sup> operations AC-coil >5x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 1200 min <sup>-1</sup>
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



## PCB layout / terminal assignment

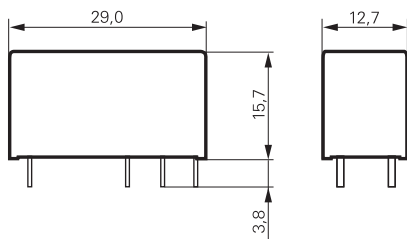
View on solder pins  
Dimensions in mm



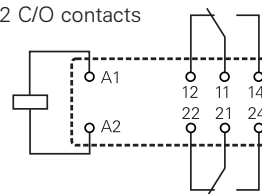
\*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

## Dimensions

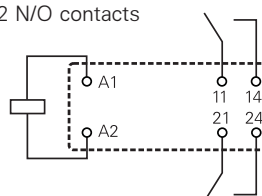
Dimensions in mm



## 2 C/O contacts



## 2 N/O contacts



# Power PCB Relay RT2

2 pole 8 A, DC and AC-coil

## Product key

<b>R</b>	<b>T</b>	<b>4</b>				
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Type

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	2 C/O contacts	AgNi 90/10	DC-coil	5 Vdc	5-1393243-9
RT424006	pinning 5 mm				6 Vdc	6-1393243-1
RT424012	flux proof				12 Vdc	6-1393243-3
RT424024					24 Vdc	6-1393243-8
RT424048					48 Vdc	7-1393243-0
RT424060					60 Vdc	7-1393243-3
RT424110					110 Vdc	7-1393243-5
RT424524				AC-coil	24 Vac	7-1393243-6
RT424615					115 Vac	7-1393243-8
RT424730					230 Vac	7-1393243-9
RT425005			AgNi 90/10	DC-coil	5 Vdc	8-1393243-0
RT425012			gold plated		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	8 A	2 C/O contacts			5 Vdc	0-1393243-1
RTE24006	pinning 5 mm				6 Vdc	0-1393243-2
RTE24012	wash tight				12 Vdc	0-1393243-4
RTE24024					24 Vdc	1-1393243-0
RTE24048					48 Vdc	1-1393243-1
RTE24060					60 Vdc	1-1393243-3
RTE24110					110 Vdc	1-1393243-4
RTE24524				AC-coil	24 Vac	1-1393243-5
RTE24615					115 Vac	1-1393243-7
RTE24730					230 Vac	1-1393243-8
RTE25005			AgNi 90/10	DC-coil	5 Vdc	1-1393243-9
RTE25012			gold plated		12 Vdc	2-1393243-0
RTE25024					24 Vdc	2-1393243-1