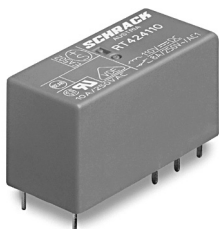


Power PCB Relay RT2

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 (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 90/10 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

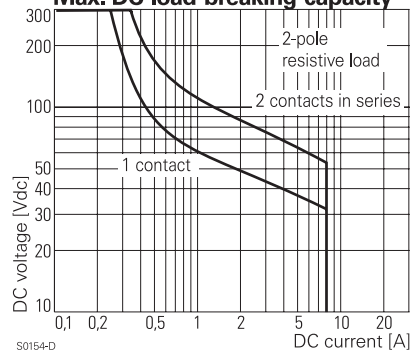
Coil versions, DC-coil

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

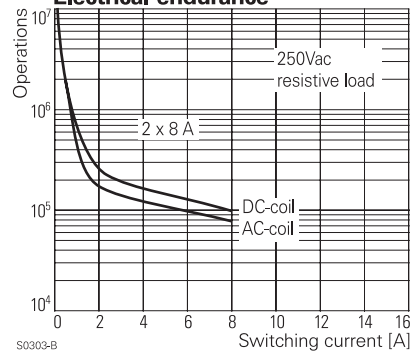
Other coil voltages on request

Max. DC load breaking capacity



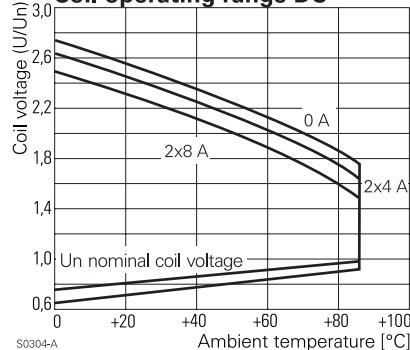
S0154-D

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 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

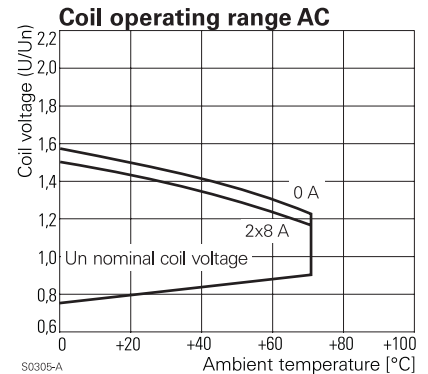
All figures are given for coil without preenergization, at ambient temperature +20°C

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

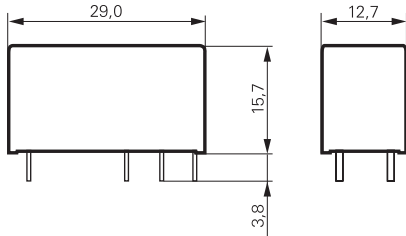


Power PCB Relay RT2

2 pole 8 A, DC and AC-coil

Dimensions

Dimensions in mm

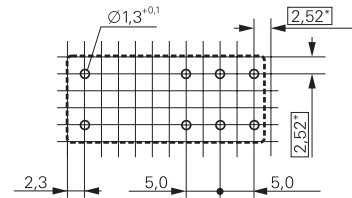


S0272-AA

PCB layout / terminal assignment

View on solder pins

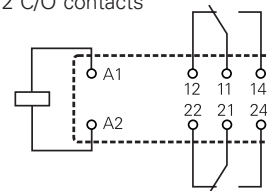
Dimensions in mm



S0418-BA

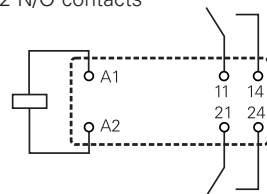
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

2 C/O contacts



S0163-BJ

2 N/O contacts



S0163-BK

Product key

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

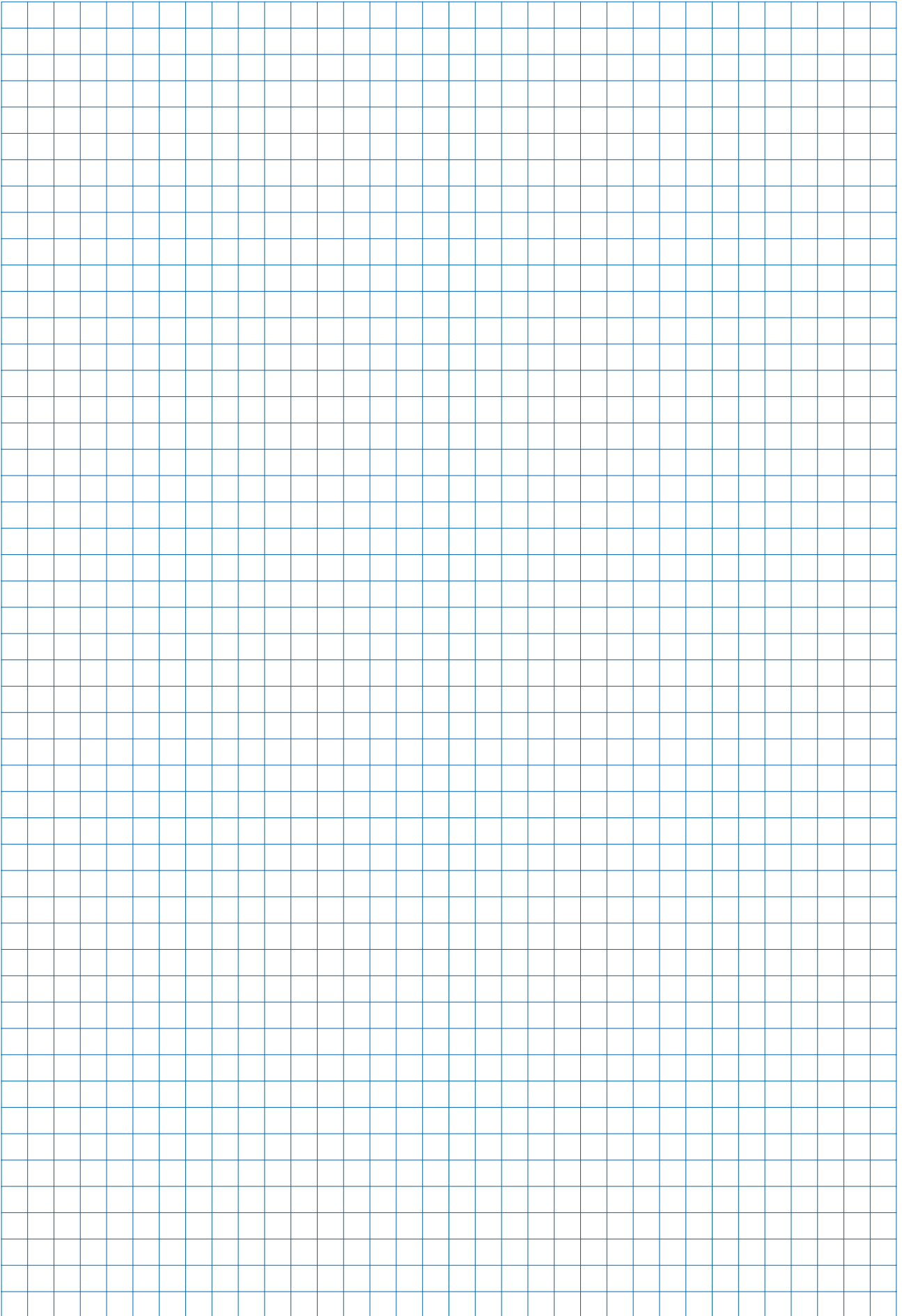
Coil code: please refer to coil versions table

Preferred types in bold print



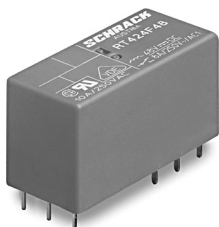
Rights to change data / design reserved

Notice



Power PCB Relay RT2 bistable

2 pole 8 A, polarized bistable version



F0219-B

Features

- 2 C/O contacts
- Bistable with 1 or 2 coils
- 5 kV / 10 mm coil-contact
- Height 15.7 mm
- Cadmium-free contacts
- Protection class II (VDE 0700)

Applications

Battery powered equipment or applications with "memory function" (e.g. mains failure)



Technical data of approved types on request

Contact data

Configuration	2 C/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

Coil data

	1 coil	2 coils
Nominal voltage		5...24 Vdc
Nominal coil power	typ. 400 mW	typ. 600 mW
Minimum energization time		30 ms
Information on reduced pulse duration with higher energization voltages on demand		
Max. energization time for version with 2 coils	1 min at <10% duty cycle	
Reset voltage min.	70 % U_{nom}	70 % U_{nom}
Reset voltage max.	120 % U_{nom}	150 % U_{nom}

Coil versions, bistable

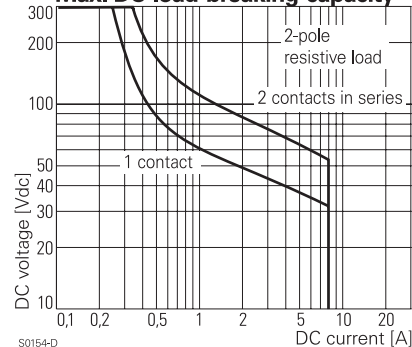
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Reset voltage Vdc	Coil resistance Ω	Coil current mA
bistable, 1 coil					
A05	5	3.5	3.5	62±10%	80.0
A06	6	4.2	4.2	90±10%	66.7
A12	12	8.4	8.4	360±10%	33.3
A24	24	16.8	16.8	1440±10%	16.7
bistable, 2 coils					
F05	5	3.5	3.5	42±10%	120.0
F06	6	4.2	4.2	55±10%	110.0
F12	12	8.4	8.4	240±10%	50.0
F24	24	16.8	16.8	886±10%	27.0

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

Coils - operation

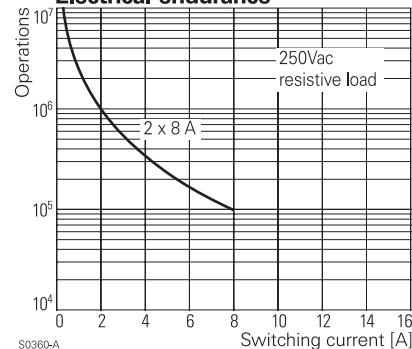
Version	1 coil		2 coils	
Coil terminals	A1	A2	A1	A2
Pull-in	+	-	+	-
Reset	-	+	-	+
Contact position not defined at delivery				

Max. DC load breaking capacity



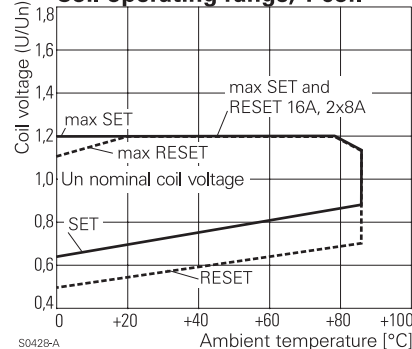
S0154-D

Electrical endurance



S0360-A

Coil operating range, 1 coil



S0428-A

Power PCB Relay RT2 bistable

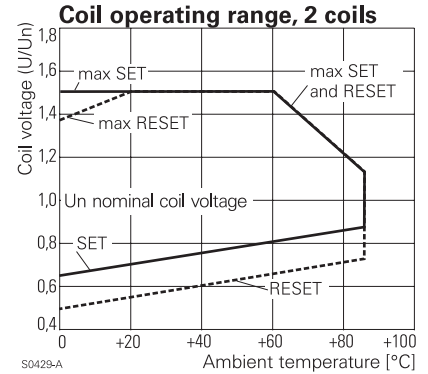
2 pole 8 A, polarized bistable version

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

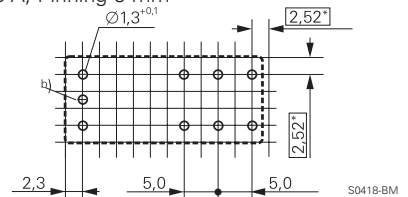
Flammability class according to UL 94		V-0
Coil insulation system according to UL 1446		Class F
Ambient temperature		-40...+85 °C (UL: +70 °C)
Mechanical life		2x10 ⁶ operations
Max. switching rate at rated- / minimum load		6 min ⁻¹ / 600 min ⁻¹
Operate- / release time		typ. 5 / 3 ms
Bounce time N/O contact/N/C contact		typ. 1 / 4 ms
Vibration resistance / shock resistance		
opening N/C contact		3 / 5 g
opening closed N/O contact		6 / 15 g
Shock resistance (destruction)		100 g
Category of protection (IEC 61810)		RT II - flux proof, RT III - wash tight
Relay weight		13 g
Packaging unit	1 coil	20 / 500 pcs.
	2 coils	25 / 100 pcs.
Accessories		see accessories RT



PCB layout / terminal assignment

View on solder pins
Dimensions in mm

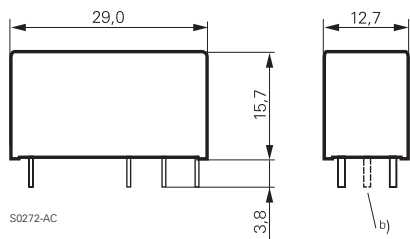
8 A, Pinning 5 mm



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

Dimensions

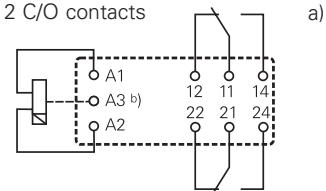
Dimensions in mm



a) Indicated contact position while or after coil energization with reset voltage.

b) for 2 coil version only

2 C/O contacts



Product key

Type

Version

4 8 A, pinning 5 mm, flux proof

E wash tight

Contacts

2 2 C/O contacts

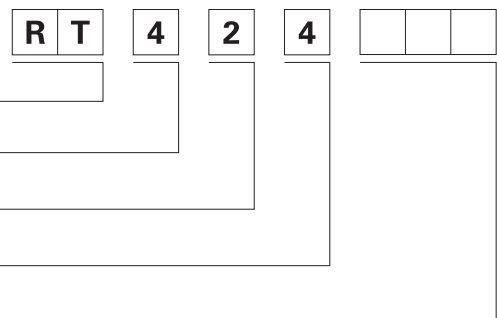
Contact material

4 AgNi 90/10

Coil

Coil code: please refer to coil versions table

Preferred types in bold print



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