

Power PCB Relay RT2

- 2 pole 8A, 2 form C (CO) or 2 form A (NO) contacts
- Sensitive coil 400mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 85°C

Typical applications

Boiler control, timers, garage door control, POS automation, interface modules







Approvals

VDE Cert. No. 40007571, UL E214025, cCSAus 1142018 CQC 18002197247 (monostable), CQC 20002275223 (China production), CQC 08001027262 (China production)

Technical data of approved types on request

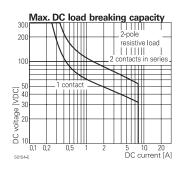
Contact Data					
Contact arrangement	2 form C (CO) or 2 form A (NO)				
Rated voltage	250VAC				
Max. switching voltage	400VAC				
Rated current	8A, UL: 10A				
Limiting continuous current	8A, UL: 10A				
Limiting making current, max. 4s, duty factor 10% 15A					
Breaking capacity max.	2000VA				
Contact material	AgNi 90/10				
Frequency of operation, with/without lo	ad 360/72000h ⁻¹				
Operate/release time max., DC coil	8/6ms				
Bounce time max., DC coil, form A/forr	m B 4/10ms				

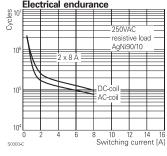
Contact ratings

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Туре	Contact	Load	Cycles
IEC 61810			
RT424 DC coil	C (CO)	8A, 250VAC, cosφ=1, 85°C	10x10 ³
RT444 AC coil	A (NO)	8A, 250VAC, cosφ=1, 70°C	$50x10^3$
RT424 AC coil	C (CO)	8A, 250VAC, cosφ=1, 70°C	30x10 ³
UL 61810-1 (fc	rmer UL 508)		
RT424 DC coil	A/B (NO/NC)	10A, 250VAC, gen. purpose, 85°C	20x10 ³
RT424 DC coil	A/B (NO/NC)	1/2hp, 240VAC, 85°C	1x10 ³
RT424 DC coil	A/B (NO/NC)	Pilot duty, B300, R300, 85°C	6x10 ³
EN60947-5-1			
RTE24 DC coil	A/B (NO/NC)	AC15, 250VAC, 3A	6.050
RTE24 DC coil	A/B (NO/NC)	DC13, 24VDC, 2A	6.050
RTE24 DC coil	A/B (NO/NC)	DC13, 250VDC, 0.2A	6.050
EN60730-1			
RT424 DC coil	A/B (NO/NC)	6(2)A, 250VAC, 85°C	100x10 ³

Mechanical endurance

>30x10⁶ operations

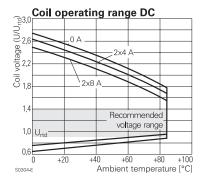




Coil Data		
Coil voltage range	5 to 110VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	class F	

(Coil versions, DC coil							
_	Coil	Rated	Operate	Release	Coil	Rated coil		
	code	voltage	voltage	voltage	resistance			
		VDC	VDC	VDC	Ω±10%			
	005	5	3.5	0.5	62	power		
	006	6	4.2	0.6	90	mW		
	009	9	6.3	0.9	200	403		
	012	12	8.4	1.2	360	400		
	024	24	16.8	2.4	1440	400		
	048	48	33.6	4.8	5520	400		

All figures are given for coil without pre-energization, at ambient temperature +23°Q₄₀₀ Other coil voltages on request.



Insulation Data			
Initial dielectric strength			
between open contacts	1000V _{rms}		
between contact and coil	5000V _{rms}		
between adjacent contacts	2500V _{rms}		
Clearance/creepage			
between contact and coil	≥10/10mm		
between adjacent contacts	≥ 3/4mm		
Material group of insulation parts	Illa		
Tracking index of relay base	PTI 250V		



Power PCB Relay RT2 (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -40 to 85°C

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

Vibration resistance (functional),

form A/form B contact, 30 to 300Hz
Shock resistance (destructive)

Terminal type
Weight

20g/5g
100g
PCB-THT, plug-in
13g

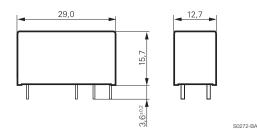
Resistance to soldering heat THT, IEC 60068-2-20

| RTII | 270°C/10s | RTIII | 260°C/5s |
| Packaging/unit | tube/20pcs., box/500pcs

Accessories

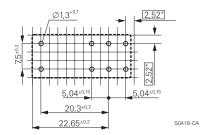
For details see datasheet Accessories Industrial Power Relay RT NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions

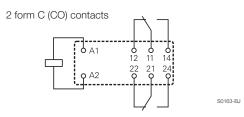


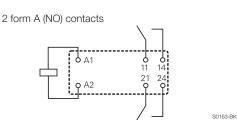
PCB layout / terminal assignment

Bottom view on solder pins



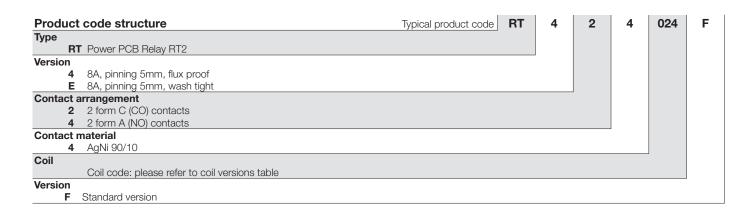
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.







Power PCB Relay RT2 (Continued)



Product code	Version	Contacts	Contact material	Coil	Part number
RT424005F	8A,	2 form C (CO)	AgNi 90/10	5VDC	1-1419108-6
RT424012F	pinning 5mm,	contacts		12VDC	2-1393237-8
RT424024F	flux proof			24VDC	1-1419108-7
RT444012F		2 form A (NO)		12VDC	1-1419108-9
RT444024F		contacts		24VDC	2-1419108-0
RTE24005F	8A,	2 form C (CO)		5VDC	4-1419108-0
RTE24006F	pinning 5mm,	contacts		6VDC	6-1393227-5
RTE24009F	wash tight			9VDC	3-1393237-0
RTE24012F				12VDC	3-1393237-1
RTE24024F				24VDC	3-1393237-3
RTE24048F				48VDC	3-1393237-4
RTE44012F		2 form A (NO)		12VDC	4-1419108-2
RTE44024F		contacts		24VDC	3-1393237-5

This list represents the most common types and does not show all variants covered by this datasheet.

Other types on request

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

3-1393237-0 RTE24009F