

Power PCB Relay RT2 Clear Cover

- 2 pole 8A, 2 form C (CO) contacts or 2 form A (NO) contacts
- DC or AC coil
- Sensitive coil 400mW
- 5kV/10mm coil-contact, reinforced insulation
- Clear Cover



Typical applications
Mechanical engineering, Interface modules

Approvals

VDE Cert. No. 40007571, UL E214025, cCSAus 1142018
Technical data of approved types on request



Contact Data

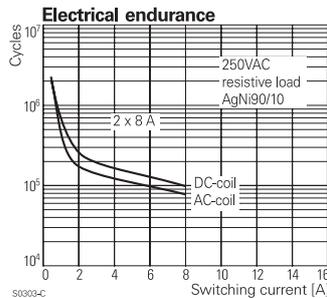
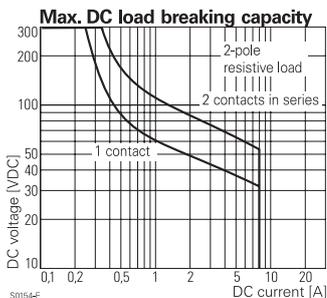
Contact arrangement	2 form C (CO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A, UL: 10A
Limiting making current, max. 4s, duty factor 10%	15A
Breaking capacity max.	2000VA
Contact material	AgNi 90/10, AgNi 90/10 gold plated
Frequency of operation, with/without load	
DC coil	360/72000h ⁻¹
AC coil	360/36000h ⁻¹
Operate/release time max., DC coil	8/6ms
Bounce time max., DC coil, form A/form B	4/10ms

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
RT424	C (CO)	8A, 250VAC, cosφ=1, 70°C	30x10 ³
UL 508			
RT424	A (NO)	8A, 30VDC, general purpose, 70°C	6x10 ³
RT424	A (NO)	10A, 250VAC, gen. purpose, 70°C	30x10 ³
RT424	A/B (NO/NC)	motor, 1/2hp, 240VAC, 70°C	1x10 ³
RT424	A/B (NO/NC)	pilot duty, B300, R300, 70°C	6x10 ³
EN60947-5-1			
RT424 DC coil	A/B (NO/NC)	AC15, 250VAC, 3A	6.050
RT424 DC coil	A/B (NO/NC)	DC13, 24VDC, 2A	6.050
EN60730-1			
RT424	A/B (NO/NC)	6(2)A, 250VAC, 70°C	100x10 ³

Mechanical endurance

DC coil	>30x10 ⁶ operations
AC coil	>5x10 ⁶ operations



Coil Data

Coil voltage range	
DC coil	5 to 110VDC
AC coil	24 to 230VAC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% ²⁾	Rated coil power mW
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
060	60	42.0	6.0	8570 ²⁾	420
110	110	77.0	11.0	28800 ²⁾	420

2) Coil resistance ±12%.

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

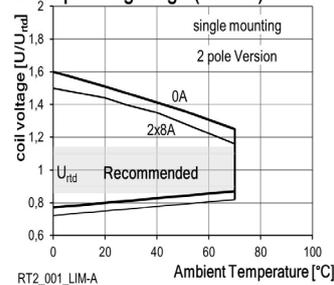
Coil versions, AC coil 50Hz

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance Ω±15% ³⁾	Rated coil power VA
524	24	18.0	3.6	350 ³⁾	0.76
615	115	86.3	17.3	8100	0.76
730	230	172.5	34.5	32500	0.74

3) Coil resistance ±10%.

All figures are given for coil without pre-energization, at ambient temperature +23°C, 50Hz. Other coil voltages on request

Coil operating range (RT2-C)



Power PCB Relay RT2 Clear Cover (Continued)

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	
	IIIa
Tracking index of relay base	
	PTI 250V

Other Data

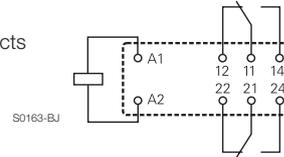
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter

Ambient temperature	
DC coil	-40 to 70°C
AC coil	-40 to 70°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional), form A/form B contact, 30 to 300Hz	
	20g/5g
Shock resistance (destructive)	
	100g
Terminal type	
	PCB-THT
Mounting distance, AC coil	
	≥2.5mm
Weight	
	13g
Packaging/unit	
	tube/20pcs., box/500pcs.

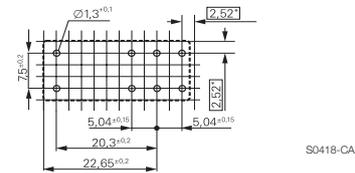
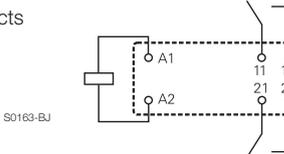
PCB layout / terminal assignment

Bottom view on pins

2 form C (CO) contacts

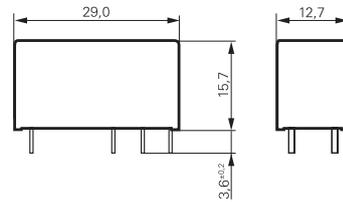


2 form A (NO) contacts



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

Dimensions



Product code structure

Typical product code

Type	RT	4	2	4	024	C
RT	Power PCB RT2					
Version	4					
4	8A, pinning 5mm, flux proof					
Contact Arrangement	2					
2	2 form C (CO) contacts					
4	2 form A (NO) contacts					
Contact material	4					
4	AgNi 90/10					
5	AgNi 90/10 gold plated					
Coil	Coil code: please refer to coil versions table					
Version	C					
C	Clear cover					

Product code	Version	Contacts	Cont. material	Coil	Version	Part Number
RT424012C	8A,	2 form C (CO)	AgNi 90/10	DC coil	12VDC	2-1415544-6
RT424024C	pinning 5mm,	contacts		DC coil	24VDC	2-1415544-7
RT424730C	flux proof			AC coil	230VAC	tbd

Other types on request