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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 REG.-Nr. 6106, UL E214025, cCSAus 14385
Technical data of approved types on request

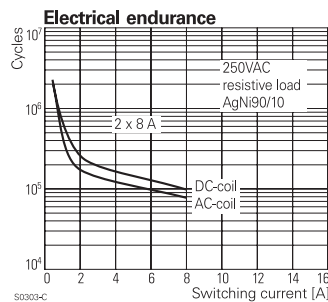
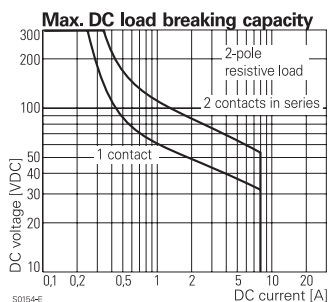
Contact Data

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 load	360/72000h ⁻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 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 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



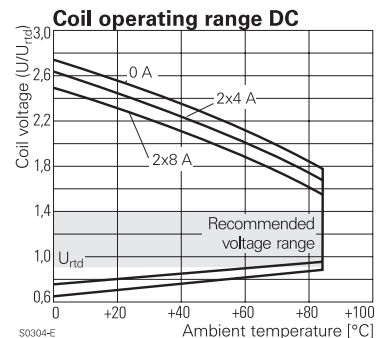
Coil Data

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

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	400
009	9	6.3	0.9	200	400
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417

All figures are given for coil without pre-energization, at ambient temperature +23°C.
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	IIIa
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

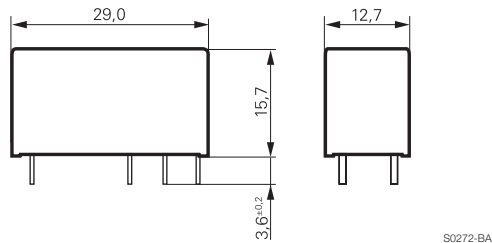
Ambient temperature	-40 to 85°C
Category of environmental protection	RTII - flux proof, RTIII - wash tight
IEC 61810	
Vibration resistance (functional), form A/form B contact, 30 to 300Hz	20g/5g
Shock resistance (destructive)	100g
Terminal type	PCB-THT, plug-in
Weight	13g
Resistance to soldering heat 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](#)

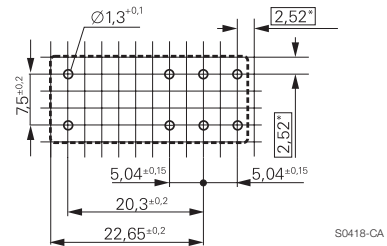
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions



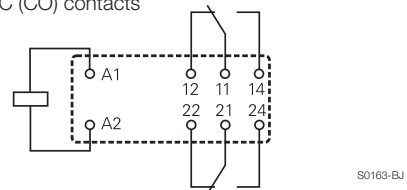
PCB layout / terminal assignment

Bottom view on solder pins

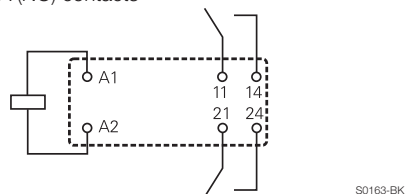


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

2 form C (CO) contacts



2 form A (NO) contacts



Power PCB Relay RT2 (Continued)

Product code structure		Typical product code					
Type	RT Power PCB Relay RT2	RT	4	2	4	024	F
Version							
4	8A, pinning 5mm, flux proof						
E	8A, pinning 5mm, wash tight						
Contact arrangement							
2	2 form C (CO) contacts						
4	2 form A (NO) contacts						
Contact material							
4	AgNi 90/10						
Coil							
	Coil code: please refer to coil versions table						
Version							
F	Standard version						

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

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TE Connectivity:

[RTE24012F](#) [RT424024](#) [RT424012](#) [RTE24018](#) [RTE24006](#) [RTE24012](#) [RTE44024F](#) [RTE44012F](#) [RTE24024F](#)
[RTE24048F](#) [RT424012F](#) [RTE24615](#) [RTE24005F](#) [RT424110](#) [RT424024F](#) [RTE24006F](#) [RTE24009F](#) [RTE44009](#)
[RTE25012](#) [RT424005](#) [RT425012](#) [RT444012](#) [RT444024](#) [RTE25005](#) [RT424048](#) [RT425024](#) [RTE24005](#) [RTE25024](#)
[RT424730](#) [RT424615](#) [RTE24730](#) [RTE24048](#) [RTE24110](#) [RT424524](#) [RT424005F](#) [RT424018](#) [RT424A05](#) [RT424A12](#)
[RT424A24](#) [RT425005](#) [RT444012F](#) [RTE24022F](#) [RTE24524](#) [RTE25006AP](#) [RTE25615](#) [RTE44012](#) [RTE44024](#)