

Power PCB Relay RT2 DC and AC (for Asia/Pacific markets)

- 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
- WG version: product in accordance to IEC60335-1



Typical applications

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



Approvals

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

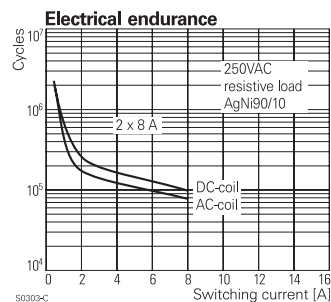
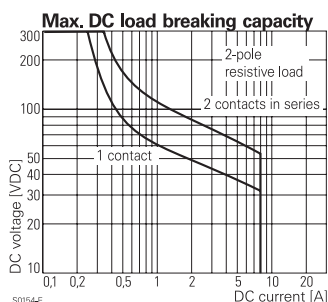
Contact Data

Contact arrangement	2 form C (CO) 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



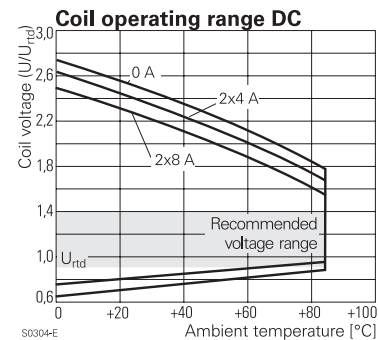
Coil Data

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	1000Vrms
between contact and coil	5000Vrms
between adjacent contacts	2500Vrms
Clearance/creepage	
between contact and coil	≥ 10/10mm
between adjacent contacts	≥ 3/4mm
Material group of insulation parts	IIla
Tracking index of relay base	PTI 250V

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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

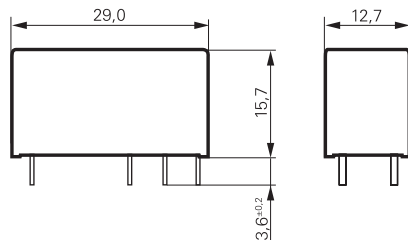
Resistance to heat and fire	
WG version	according EN60335, par30
Ambient temperature -40 to 85°C	
Category of environmental protection	
IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional)	
form A/form B contact, 30 to 300Hz	20g/5g
Shock resistance (destructive)	
	100g
Terminal 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](#)

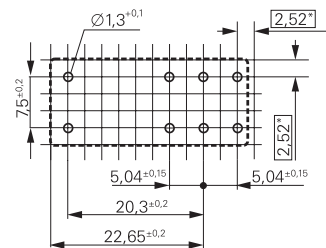
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions



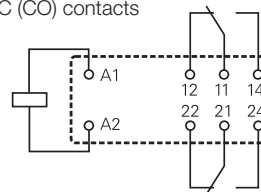
PCB layout / terminal assignment

Bottom view on solder pins

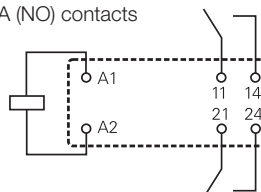


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

2 form C (CO) contacts



2 form A (NO) contacts



Power PCB Relay RT2 DC and AC (for Asia/Pacific markets) (Continued)

Product code structure		Typical product code		RT	4	2	4	024	AP
Type		RT Power PCB Relay RT2							
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		AP Standard version WGAP Product in accordance with IEC 60335-1 (domestic appliances)							

Product code	Version	Contacts	Contact material	Coil	Part number
RT424005AP	8A,	2 form C (CO) contacts	AgNi 90/10	5 VDC	1-1649329-0
RT424009AP	pinning 5mm,			9 VDC	1-1649329-2
RT424012AP	flux proof			12 VDC	1-1649329-3
RT424024AP				24 VDC	1-1649329-5
RT424048AP				48 VDC	1-1649329-6
RTE24005AP	8A,			5 VDC	1649329-1
RTE24012AP	pinning 5mm,			12 VDC	1649329-4
RTE24024AP	wash tight			24 VDC	1649329-6
RTE24048AP				48 VDC	1649329-7
RTE24110AP				110 VDC	1649329-9

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