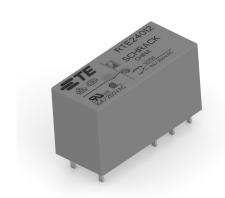


# Power PCB Relay RT2 DC and AC (for Asia/Pacific markets)

- 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,

CQC 20002275223, CQC 08001027262

Technical data of approved types on request.

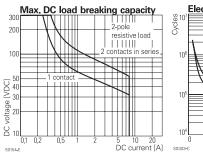
Contact Data	
Contact arrangement	2 form C (CO) or 2 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A, UL: 10A
Limiting continuous current	8A, UL: 10A
Limiting making current, max. 4s, duty	factor 10% 15A
Breaking capacity max.	2000VA
Contact material	AgNi 90/10
Frequency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

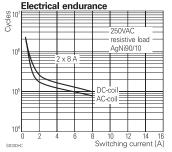
Contact ratings

Mechanical endurance

Contact rating	js –		
Type	Contact	Load	Cycles
IEC 61810			
RT424 DC coil	C (CO)	8A, 250VAC, cosφ=1, 85°C	10x10 <sup>3</sup>
RT444 AC coil	A (NO)	8A, 250VAC, cosφ=1, 70°C	50x10 <sup>3</sup>
RT424 AC coil	C (CO)	8A, 250VAC, cosφ=1, 70°C	30x10 <sup>3</sup>
UL 508			
RT424 DC coil	A/B (NO/NC)	10A, 250VAC, gen. purpose, 85°C	20x10 <sup>3</sup>
RT424 DC coil	A/B (NO/NC)	1/2hp, 240VAC, 85°C	1x10 <sup>3</sup>
RT424 DC coil	A/B (NO/NC)	Pilot duty, B300, R300, 85°C	6x10 <sup>3</sup>
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 <sup>3</sup>

\30v106	ongrations



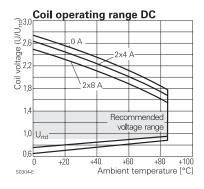


Coil Data	
Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

versions.	

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ω±10%	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
060	60	42.0	6.0	8570 <sup>1)</sup>	420
110	110	77.0	11.0	28800 1)	420

1) Coil resistance  $\pm 12\%$ . All figures are given for coil without pre-energization, at ambient temperature  $\pm 23\%$ . 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	Illa
Tracking index of relay base	PTI 250V

11-2020, Rev. 1120 www.te.com © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company. Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at <a href="http://relays.te.com/definitions">http://relays.te.com/definitions</a>

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.



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

Resistance to heat and fire

according EN60335, par30 WG version

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

100g Shock resistance (destructive)

PCB-THT, plug-in Terminal type 13g

Weight

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

RTII

270°C/10s 260°C/5s

RTIII Packaging/unit

tube/20pcs., box/500pcs

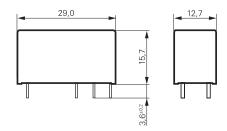
#### **Accessories**

For details see datasheet

Accessories Industrial Power Relay RT

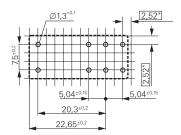
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

#### Dimensions

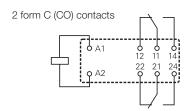


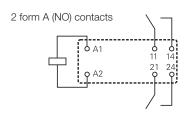
## PCB layout / terminal assignment

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 DC and AC (for Asia/Pacific markets) (Continued)

Produ	uct co	de structure	Typical product code	RT	4	2	4	024	
Туре									
	RT P	ower PCB Relay RT2							
Versio	n								
	4 8/	A, pinning 5mm, flux proof							
	<b>E</b> 8/	A, pinning 5mm, wash tight (not for Reflow version)							
Conta	ct arra	ngement							
	<b>2</b> 2	form C (CO) contacts							
	<b>4</b> 2	form A (NO) contacts							
Conta	ct mat	erial							
	3 A	gSnO							
	<b>4</b> A	gNi 90/10							
	5 A	gNi 90/10 gold plated							
Coil									
	Coil co	ode: please refer to coil versions table							
Versio	n								
	Blank	Standard version							
	WG	Product in accordance with IEC 60335-1 (domestic appliances)							
	R	Reflow solderable							

Product code	Version	Contact	Contact Material	Coil	Version	Part number
RT424005	8A,	2 form C (CO)	AgNi 90/10	5VDC	standard	1-1649329-0
RT424006	pinning 5 mm,	contacts		6VDC		1-1649329-1
RT424009	flux proof			9VDC		1-1649329-2
RT424012				12VDC		1-1649329-3
RT424012WG				12VDC	IEC 60335-1 compliant	8-1833003-5
RT424024				24VDC	standard	1-1649329-5
RT424048				48VDC		1-1649329-6
RT424060				60VDC		1-1649329-7
RT424110				110VDC		1-1649329-8
RT425005			AgNi 90/10	5VDC		4-1649329-6
RT425012			gold plated	12VDC		4-1649329-9
RT425024				24VDC		5-1649329-1
RT444012		2 form A (NO)	AgNi 90/10	12VDC		3-1649329-1
RT444024		contacts		24VDC		3-1649329-3
RTE24005	8A,	2 form C (CO)		5VDC		1649329-1
RTE24006	pinning 5 mm,	contacts		6VDC		1649329-2
RTE24012	wash tight			12VDC		1649329-4
RTE24024				24VDC		1649329-6
RTE24048				48VDC		1649329-7
RTE24060				60VDC		1649329-8
RTE24110				110VDC		1649329-9
RTE25005			AgNi 90/10	5VDC		3-1649329-7
RTE25012			gold plated	12VDC		4-1649329-0
RTE25024				24VDC		4-1649329-2
RTE44009		2 form A (NO)	AgNi 90/10	9VDC		2-1649329-1
RTE44012		contacts		12VDC		2-1649329-2
RTE44024				24VDC		2-1649329-4
RTE44048				48VDC		2-1649329-5