

Power PCB Relay RT2 DC and AC

- 2 pole 8A, 2 form C (CO) or 2 form A (NO) contacts
- **■** DC or AC coil
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature up to 85°C
- WG version: product in accordance to IEC60335-1
- Reflow version: for THR (Through-Hole Reflow) soldering process

Typical applications

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









Approvals

Electrical endurance

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, du	ty factor 10% 15A		
Breaking capacity max. 2000VA			
Contact material AgNi 90/10, AgNi 90/10 gold plated			
	AgSnO ₂		
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/fe	orm B 4/10ms		

Contact ratin	ıgs		
Туре	Contact	Load	
IFC 61810			

RT424 DC coil C (CO) 8A, 250VAC, cosφ=1, 85°C 10x10³ 8A, 250VAC, cosφ=1, 70°C RT444 AC coil A (NO) 50x103 RT424 AC coil C (CO) 8A, 250VAC, cosφ=1, 70°C 30x10³ UL 61810-1 (former UL 508) RT424 DC coil A/B (NO/NC) 10A, 250VAC, gen. purpose, 85°C RT424 DC coil A/B (NO/NC) 1/2hp, 240VAC, 85°C 20x10³ 1x103 RT424 DC coil A/B (NO/NC) Pilot duty, B300, R300, 85°C 6x10³ EN60947-5-1 6.050

RTE24 DC coil A/B (NO/NC) AC15, 250VAC, 3A 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 100x10³

1) For reflow solderable versions: actual contact performance may be influenced by the reflow soldering process.

Contact Data (continued)	
Mechanical endurance	
DC coil	>30x10 ⁶ ope
DC coil, reflow version	>10x10 ⁶ ope

DC coil	>30x10 ⁶ operations
DC coil, reflow version	>10x10 ⁶ operations
AC coil	>5x10 ⁶ operations
AC coil, reflow version	>2x10 ⁶ operations

5 to 110VDC / 24 to 230VAC
2
class F

Coil versions, Do	C coil
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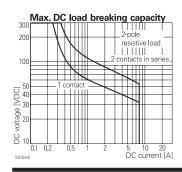
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{2)}$	mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	400
009	9	6.3	0.9	200	400
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417
060	60	42.0	6.0	8570 ²⁾	420
110	110	77.0	11.0	288002)	420

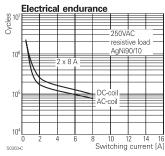
2) Coil resistance $\pm 12\%$. All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request

Coil versions, AC coil 50Hz

	,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	$\Omega \pm 15\%^{3)}$	VA
524	24	18.0	3.6	350 ³⁾	0.76
615	115	86.3	17.3	8100	0.76
620	120	90.0	18.0	8800	0.75
700	200	150.0	30.0	24350	0.76
730	230	172.5	34.5	32500	0.74

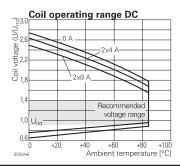
3) Coil resistance ±10%. All figures are given for coil without pre-energization, at ambient temperature +23°C, 50Hz. Other coil voltages on request.

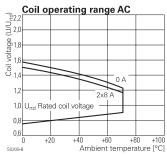




see electrical endurance graph¹⁾

Cycles





06-2022, Rev. 2 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 http://relays.te.com/definitions

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



Power PCB Relay RT2 DC and AC (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	5000V _{ms}	
between adjacent contacts	2500V	
Clearance/creepage	ms	
between contact and coil	≥10/10mm	
between adjacent contacts	≥3/4mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI 250V	
reflow version	PTI 175V	

Ot	he	r D	ata

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 or reflow version according EN60335, par30

Ambient temperature

DC coil -40 to 85°C -40 to 70°C AC coil AgSnO₂ contacts -40 to 70°C

Category of environmental protection, IEC 61810

standard version RTII - flux proof, RTIII - wash tight

reflow version RTII - flux proof

Vibration resistance (functional),

form A/form B contact, 30 to 300Hz 20g/5g Shock resistance (destructive) 100g

Other Data (continued)	
Terminal type	PCB-THT, plug-in
reflow version	PCB-THR
Mounting distance, AC coil	≥2.5mm
Weight	13g
Resistance to soldering heat THT, IEC	60068-2-20
RTII	270°C/10s
RTIII	260°C/5s
Resistance to soldering heat THR	
reflow soldering (for reflow version)	forced gas convection 4) or
	vapour phase 5)
temperature profile	according EN61730

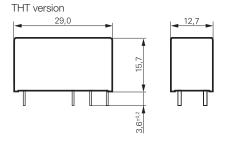
⁴⁾ infrared heating not allowed 5) recommended fluid LS/230.

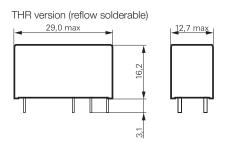
Accessories

Packaging/unit

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.

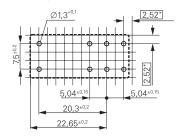
Dimensions





PCB layout / terminal assignment

Bottom view on solder pins

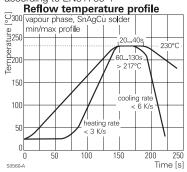


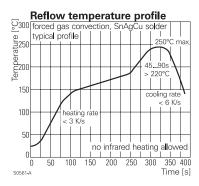
tube/20pcs., box/500pcs.

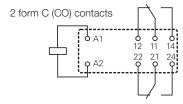
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used

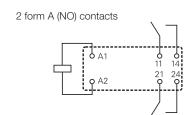
Process conditions for Reflow soldering

according to EN61760-1











Power PCB Relay RT2 DC and AC (Continued)

Product	code structure	Typical product code	RT	4	2	4	024	
Туре								
RT	Power PCB Relay RT2							
Version								
4	8A, pinning 5mm, flux proof							
Е	8A, pinning 5mm, wash tight (not for Reflow version)							
Contact a	rrangement							
2	2 form C (CO) contacts							
4	2 form A (NO) contacts							
Contact r	naterial							
3	AgSnO							
4	AgNi 90/10							
5	AgNi 90/10 gold plated							
Coil								
	Coil code: please refer to coil versions table							
Version								
Bla	ank Standard version							
W	G Product in accordance with IEC 60335-1 (domestic appliances)							
R	Reflow solderable							

Product code	Version	Contacts	Contact material	Coil	Version	Part number	
						Austria	China
RT423730	8A,	2 form C (CO)	AgSnO	230VAC	Standard	4-1393243-3	
RT424005	pinning 5mm,	contacts	AgNi 90/10	5VDC		5-1393243-9	1-1649329-0
RT424006	flux proof			6VDC		6-1393243-1	1-1649329-1
RT424009				9VDC			1-1649329-2
RT424012				12VDC		6-1393243-3	1-1649329-3
RT424012WG					IEC60335-1 compliant	7-1415538-8	8-1833003-5
RT424024				24VDC	Standard	6-1393243-8	1-1649329-5
RT424024WG					IEC60335-1 compliant	7-1415538-7	
RT424048				48VDC	Standard	7-1393243-0	1-1649329-6
RT424060				60VDC		7-1393243-3	1-1649329-7
RT424110				110VDC		7-1393243-5	1-1649329-8
RT424524				24VAC		7-1393243-6	
RT424615				115VAC		7-1393243-8	
RT424730				230VAC		7-1393243-9	
RT425003			AgNi 90/10	3VDC		7-1415525-1	
RT425005			gold plated	5VDC		8-1393243-0	4-1649329-6
RT425012				12VDC		8-1393243-2	4-1649329-9
RT425024				24VDC		8-1393243-5	5-1649329-1
RT444012		2 form A (NO)	AgNi 90/10	12VDC		9-1393243-7	3-1649329-1
RT444024		contacts		24VDC		9-1393243-9	3-1649329-3
RTE24005	8A,	2 form C (CO)		5VDC		1393243-1	1649329-1
RTE24006	pinning 5mm,	contacts		6VDC		1393243-2	1649329-2
RTE24012	wash tight			12VDC		1393243-4	1649329-4
RTE24024				24VDC		1-1393243-0	1649329-6
RTE24048				48VDC		1-1393243-1	1649329-7
RTE24060				60VDC		. 10002.10	1649329-8
RTE24110				110VDC		1-1393243-4	1649329-9
RTE24524				24VAC		1-1393243-5	
RTE24615				115VAC		1-1393243-7	
RTE24730				230VAC		1-1393243-8	
RTE25005			AgNi 90/10	5VDC		1-1393243-9	3-1649329-7
RTE25012			gold plated	12VDC		2-1393243-0	4-1649329-0
RTE25024			gora piatoa	24VDC		2-1393243-1	4-1649329-2
RTE25524				21100		2-1393243-4	1 10 10020 2
RTE43009		2 form A (NO)		9VDC		4-1415535-1	
RTE44009		contacts	AgNi 90/10	9VDC		3-1393243-1	2-1649329-1
RTE44012		Contacto	7 (g) (i) 00/10	12VDC		3 10002 10 1	2-1649329-2
RTE44024				24VDC			2-1649329-4
RTE44048				48VDC			2-1649329-5
RTE44730				230VAC		3-1393243-5	2 10-10020 0

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

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单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)