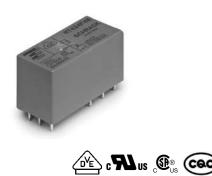


## Power PCB Relay RT2 bistable

- 2 pole 8A, 2 form C (CO) contacts
- Polarized bistable version with 1 or 2 coils
- 5kV/10mm coil-contact
- Reinforced insulation

Typical applications Battery powered equipment or applications with "memory function".



### Approvals

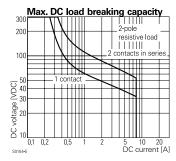
VDE Cert. No. 40007571, UL E214025, cCSAus 1142018 CQC 18002197364 Technical data of approved types on request.

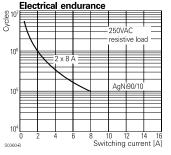
Contact Data		
Contact arrangement	2 form C (CO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	8A, UL: 10A	
Limiting continuous current	8A, UL: 10A	
Limiting making current, max. 4s, duty factor	or 10% 15A	
Breaking capacity max.	2000VA	
Contact material	AgNi 90/10	
Frequency of operation, with/without load	900/72000h-1	
Operate/Reset time max.	10/5ms	
Bounce time max., form A/form B	4/9ms	

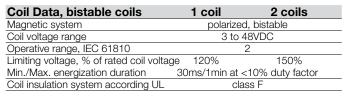
Туре	Contact	Load	Cycles
IEC 6181	10		
RT444	A (NO)	8A, 250VAC resistive, 85°C	100x10 <sup>3</sup>
RT424	C (CO)	8A, 250VAC resistive, 85°C	30x103
UL 6181	0-1 (former UL	508)	
RT424	A/B (NO/NC)	10A, 250VAC, general purpose, 85°C	20x10 <sup>3</sup>
RT424	A/B (NO/NC)	1/2hp, 240VAC ,85°C	1x10 <sup>3</sup>
RT424	A/B (NO/NC)	Pilot duty, B300, R300, 85°C	6x10 <sup>3</sup>
RT4/E	A/B (NO/NC)	10A/24VDC, general purpose, 85°C	5x10 <sup>3</sup>
EN60947	7-5-1		
RT424	A/B (NO/NC)	AC-15, 250VAC, 3A	6.050

Mechanical e	endurance
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>2x10<sup>6</sup> operations







Coil versions, bistable coil							
Coil	Rated	Set	Reset	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω±10%	mW		
bistable	1 coil						
A03	3	2.1	1.7	21	429		
A05	5	3.5	2.8	62	403		
A06	6	4.2	3.3	90	400		
A12	12	8.4	6.6	360	400		
A24	24	16.8	13.2	1440	400		
A48	48	33.6	26.4	5520	417		
bistable	2 coils						
F03	3	2.1	1.7	15	600		
F05	5	3.5	2.8	42	595		
F06	6	4.2	3.3	55	655		
F12	12	8.4	6.6	240	600		
F24	24	16.8	13.2	886	650		
F48	48	33.6	26.4	3291	700		

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

### **Bistable coils - operation**

Version 1 coil 2 coils Coil terminals A1 A2 A1 A3 A2 Operate + + Reset + + Contact position not defined at delivery

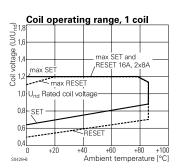
Coil

0,6

0,4

S0429-B

+20



#### (U/U<sub>rtd</sub>) 1,6 max SET nav S voltage 1,4 and RESET <max RESET 1.2 1,0 Urted Rated coil voltage 0.8 SET -

RESET

Ambient temperature [°C]

+80

1

+60

Coil operating range, 2 coils

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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.

+40



# Power PCB Relay RT2 bistable (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1000V <sub>rms</sub>	
between contact and coil	5000V	
between adjacent contacts	2500V_ms	
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	

### **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	
bistable 1 coil	-10 to 85°C
bistable 2 coils	-40 to 85°C
Category of environmental protection	
IEC 61810	RTII - flux proof
	RTIII - wash tigth
Vibration/shock resistance (functional),	
opening B contact	3/5g
opening closed A contact	6/15g
Shock resistance (destructive)	100g

#### Other Data (continued) Terminal type PCB-THT, plug-in<sup>1)</sup> Weight 13g Resistance to soldering heat THT 270°C/10s IEC 60068-2-20 Packaging/unit tube/20 pcs., box/500 pcs 1) socket available for 1 coil version only, see Accessories.

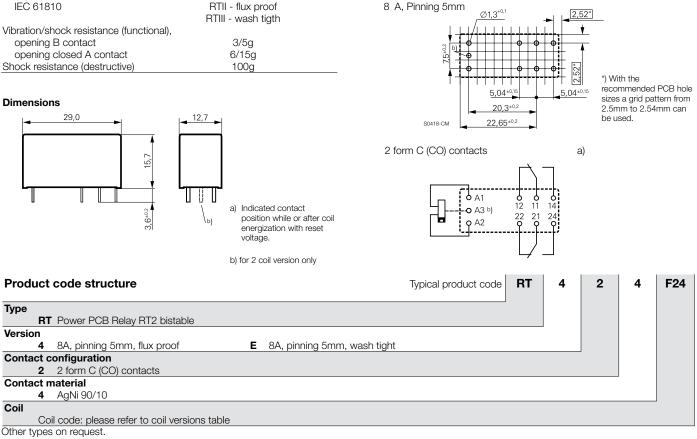
## Accessories

For 1 coil version,

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.

### PCB layout / terminal assignment

Bottom view on solder pins



	С
0	

2

Product code	Version	Contacts	<b>Contact material</b>	Coil version	Coil	Part number
RT424A05	8A,	2 form C (CO)	AgNi 90/10	Bistable 1coil	5VDC	4-1393243-4
RT424A12	pinning 5mm,	contacts			12VDC	4-1393243-6
RT424F05	flux proof			Bistable 2 coils	5VDC	5-1393243-2
RT424F12					12VDC	5-1393243-4
RT424F24					24VDC	5-1393243-6
RT424F48					48VDC	5-1393243-7
RTE24F24	8A	2 form C (CO)	AgNi 90/10	Bistable 2 coils	24VDC	8-1415541-7
RTE24F06	pinning 5mm				6VDC	1-1415020-1
RTE24F12	wash tight				12VDC	7-1415072-1

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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