

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".



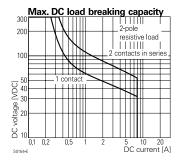
Approvals

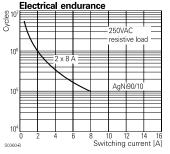
VDE Cert. No. 40007571, UL E214025, cCSAus 1142018 CQC 18002197364 Technical data of approved types on request.

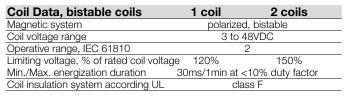
Contact Data				
Contact arrangement	2 form C (CO)			
Rated voltage	250VAC			
Max. switching voltage	400VAC			
Rated current	8A, UL: 10A			
Limiting continuous current	8A, UL: 10A			
Limiting making current, max. 4s, duty factor 10% 15A				
Breaking capacity max.	2000VA			
Contact material	AgNi 90/10			
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 ³
RT424	C (CO)	8A, 250VAC resistive, 85°C	30x103
UL 61810-1 (former UL 508)			
RT424	A/B (NO/NC)	10A, 250VAC, general purpose, 85°C	20x10 ³
RT424	A/B (NO/NC)	1/2hp, 240VAC ,85°C	1x10 ³
RT424	A/B (NO/NC)	Pilot duty, B300, R300, 85°C	6x10 ³
RT4/E	A/B (NO/NC)	10A/24VDC, general purpose, 85°C	5x10 ³
EN60947	7-5-1		
RT424	A/B (NO/NC)	AC-15, 250VAC, 3A	6.050

>2x10⁶ 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

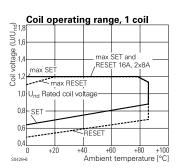
Coil

0,6

0,4

S0429-B

+20



Coil operating range, 2 coils (U/U_{rtd}) 1,6 max SET nav S voltage 1,4 and RESET <max RESET 1.2 Urted Rated coil voltage 1,0 0.8 SET -

RESET

Ambient temperature [°C]

+80

1

+60

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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 _{rms}
between contact and coil	5000V _{ms}
between adjacent contacts	2500V
Clearance/creepage	110
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-in¹⁾ 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.

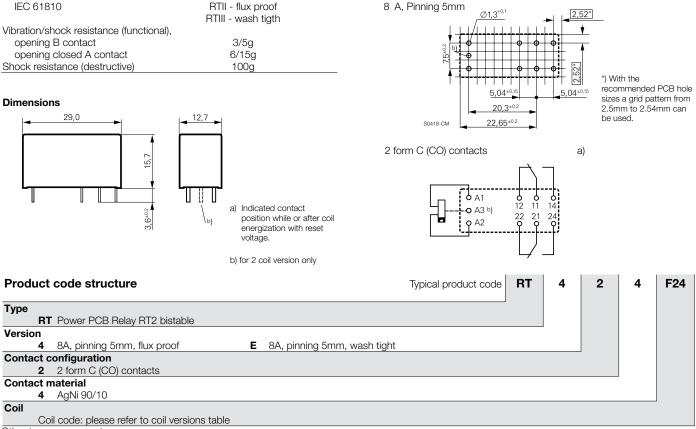
Accessories

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



Other types on request.

Product code	Version	Contacts	Contact material	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				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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TE Connectivity:

5-1393243-2