

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".





ApprovalsVDE Cert. No. 40007571, UL E214025, cCSAus 1142018

Technical data of approved types on request.

2 form C (CO)	
250VAC	
400VAC	
8A, UL: 10A	
8A, UL: 10A	
tor 10% 15A	
2000VA	
AgNi 90/10	
900/72000h ⁻¹	
10/5ms	
4/9ms	
	250VAC 400VAC 8A, UL: 10A 8A, UL: 10A tor 10% 15A 2000VA AgNi 90/10 900/72000h ⁻¹ 10/5ms

Contact ratings

Туре	Contact	Load	Cycles
IEC 61810			
RT444	A (NO)	8A, 250VAC resistive, 85°C	100x10 ³
RT424	C (CO)	8A, 250VAC resistive, 85°C	30x10 ³
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

Mechanical endurance >2x10 ⁶ operations
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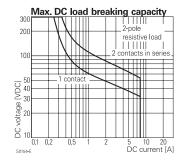
Coil Data, bistable coils	1 coil	2 coils
Magnetic system	polarize	d, bistable
Coil voltage range	3 to	24VDC
Operative range, IEC 61810		2
Limiting voltage, % of rated coil voltage	e 120%	150%
Min./Max. energization duration	30ms/1min at	<10% duty factor
Coil insulation system according UL	cla	ass F

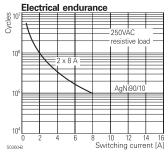
Coil versions, bistable coil									
Coil	Rated	Set	Reset	Coil	Rated coil				
code	voltage	voltage	voltage	resistance	power				
	VDC	VDC	VDC	Ω±10%	mW				
bistable	1 coil								
A03	3	2.1	1.7	21	429				
A05	5	3.5	2.8	62	403				
A06	6	4.2	3.3	90	400				
A12	12	8.4	6.6	360	400				
A24	24	16.8	13.2	1440	400				
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				

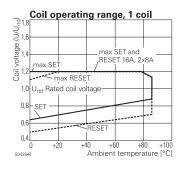
All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C. Other coil voltages on request.

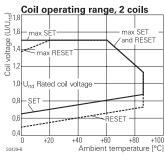
Bistable coils - operation

Distable colls - operation						
Version	1	coil	2	2 coils		
Coil terminals	A1	A2	A1	АЗ	A2	
Operate	+	-		+	-	
Reset	-	+	-	+		
Contact position not defined at delivery						











Power PCB Relay RT2 bistable (Continued)

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

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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 -40 to 85°C bistable 2 coils

Category of environmental protection

IEC 61810 Vibration/shock resistance (functional),

3/5g opening B contact 6/15g opening closed A contact Shock resistance (destructive) 100g

Other Data (continued) Terminal type PCB-THT, plug-in¹⁾ Weight 13g Resistance to soldering heat THT IEC 60068-2-20 270°C/10s Packaging/unit tube/20 pcs., box/500 pcs 1) socket available for 1 coil version only, see Accessories.

Accessories

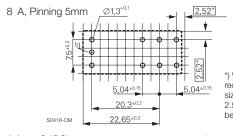
For 1 coil version,

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

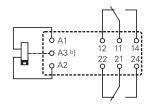
Bottom view on solder pins



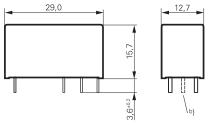
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

2 form C (CO) contacts

a)



Dimensions



Coil code: please refer to coil versions table

Indicated contact position while or after coil energization with reset

b) for 2 coil version only

RTII - flux proof

Product code structure		Typical product code	RT	4	2	4	F24
Туре							
RT Power PCB Relay RT2 bistable							
Version				-			
4 8A, pinning 5mm, flux proof	E 8A, pinning 5mm, wash tight						
Contact configuration					•		
2 2 form C (CO) contacts							
Contact material						•	
4 AgNi 90/10							
Coil							,

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
RTE24F24	8A pinning 5mm wash tight	2 form C (CO) contacts	AgNi 90/10	Bistable 2 coils	24VDC	8-1415541-7

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