

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".



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Coil Data, bistable coils	1 coil	2 coils
Magnetic system	polarize	ed, bistable
Coil voltage range	3 to	48VDC
Operative range, IEC 61810		2
Limiting voltage, % of rated coil voltage	je 120%	150%
Min./Max. energization duration	30ms/1min at	<10% duty factor
Coil insulation system according UL	С	lass F

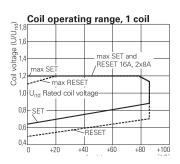
Coil versions, bistable coil

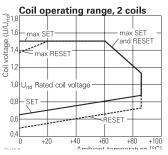
Coil	Rated	Set	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
bistable	1 coil				
A03	3	2.1	1.7	21	429
A05	5	3.5	2.8	62	403
A06	6	4.2	3.3	90	400
A12	12	8.4	6.6	360	400
A24	24	16.8	13.2	1440	400
A48	48	33.6	26.4	5520	417
bistable	2 coils				
F03	3	2.1	1.7	15	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 figuros	are given for coil	without pro-opor	aization at amb	piont tomporaturo	12300

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			





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

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

Technical data of approved types on request.

Contact Data

Approvals

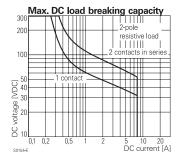
Contact Data		
Contact arrangement	2 form C (CO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	8A, UL: 10A	
Limiting continuous current	8A, UL: 10A	
Limiting making current, max. 4s, duty factor	r 10% 15A	
Breaking capacity max.	2000VA	
Contact material	AgNi 90/10	
Frequency of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

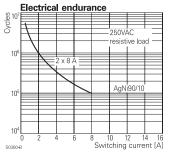
Contact ratings

Contact I	ratings		
Туре	Contact	Load	Cycles
IEC 6181	0		
RT444	A (NO)	8A, 250VAC resistive, 85°C	100x10 ³
RT424	C (CO)	8A, 250VAC resistive, 85°C	30x103
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	-5-1		
RT424	A/B (NO/NC)	AC-15, 250VAC, 3A	6.050

Mechanical endurance

>2x10⁶ operations







SCHRACK

Power PCB Relay RT2 bistable (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
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-in¹⁾ Weight 1<u>3g</u> 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.

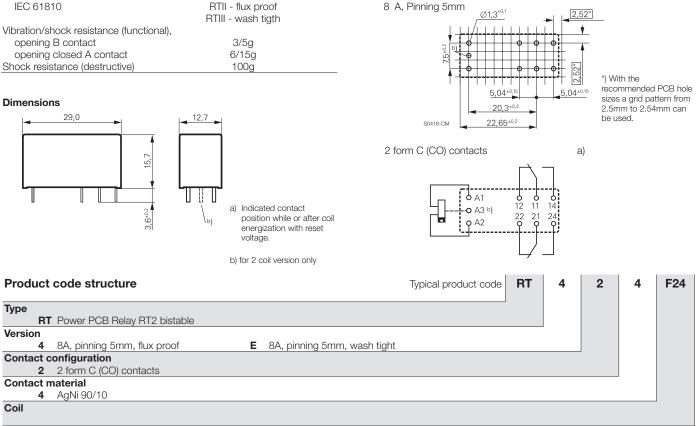
Accessories

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



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	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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