

Power PCB Relay RT1 bifurcated

■ 1 pole 12/16A, 1 form C (CO) contact

- Sensitive DC coil, 200 or 400mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 85°C

Typical applications

Switching from dry circuit up to 16A, including arc-less switching, with extra high reliability





F0307-A

Approvals

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

Contact Data

Contact Data			
Contact arrangement	1 form C (CO) ¹⁾		
Rated voltage	250VAC		
Max. switching voltage	40	OVAC	
Rated current	12A ²⁾	16A	
Limiting making current, max. 4s, df 10	% 16A	16A	
Breaking capacity max.	3000VA	4000VA	
Contact material	AgNi90/10	AgNi90/10	
	gold plated		
Contact style	twin (bifurcated) contact		
Frequency of operation, with/without lo	ad 360/3	36000h ⁻¹	
Operate/release time max.	10	/5ms	
Bounce time max., form A/form B	4/	'9ms	

Contact ratings

oomact	raunga		
Туре	Contact	Load	Cycles
IEC 6181	0		
RT31C	A (NO)	16A, 250VAC, resistive, 85°C	50x10 ³
RTB7D	C (CO)	12A, 250VAC, resistive, 85°C	1x10 ³
RTB7D	C (CO)	5A, 250VAC, resistive, 85°C	100x10 ³
UL 508			
RT31C	A (NO)	16A, 250VAC, general purpose, 85°C	50x10 ³
RT31C	C (CO)	16A, 250VAC, general purpose, 40°C	6x10 ³
RTB7D	C (CO)	12A, 250VAC, general purpose, 40°C	6x10 ³
RTB7D	A (NO)	5A, 250VAC, general purpose, 85°C	100x10 ³

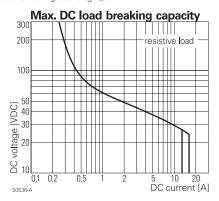
Mechanical endurance

104	version
1ZA	version

16A version

1) 1 form A (NO) contact available on request.

Recommended for switching load range ≤5A.



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>30x10⁶ operations >10x10⁶ <u>operations</u>

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

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Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1

Coil Data

Coil voltage range		
12A version	5 to 60VDC	
16A version	5 to 110VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	class F	

Coil versions, 16A version

	510115, TUA Ve	51 51011			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{3)}$	mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	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 ³⁾	420
110	110	77.0	11.0	28800 ³⁾	420

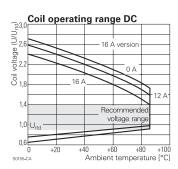
3) Coil resistance ±12%.

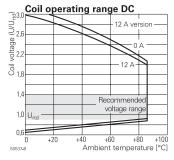
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

Coil versions, 12A version

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.5	0.5	125	200
006	6	4.2	0.6	190	190
012	12	8.4	1.2	690	210
024	24	16.8	2.4	2980	190
048	48	33.6	4.8	10470	220
060	60	42.0	6.0	16980	210

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







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Power PCB Relay RT1 bifurcated (Continued)

1000V _{rms}
5000V_ms
≥10/10mm
Illa
PTI 250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to	refer to the Product Compliance Support Center at			
WWW.	te.com/customersupport/rohssupportcenter			
Ambient temperature, DC coil	-40 to 85°C			
Category of environmental prote	ection, IEC 61810			
12A version	RTIII - wash tight			
16A version	RTII - flux proof			
Vibration resistance (functional), form A/form B contact, 30 to 500Hz				
12A version	15/3g			
16A version	15/4g			
Shock resistance (destructive)	100g			

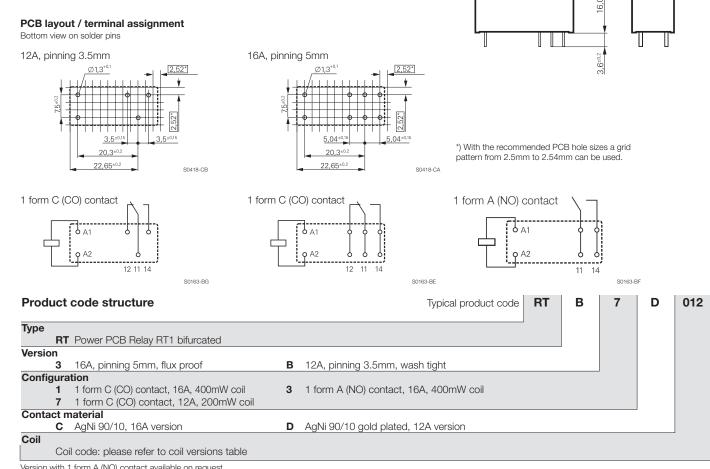
Other data (continued)			
Terminal type	PCB-THT, plug-in		
Mounting distance	≥5mm		
Weight	14g		
Resistance to soldering heat THT, IEC 60068-2-20			
RTII	270°C/10s		
RTIII	260°C/5s		
Packaging/unit	tube/20 pcs., box/500 pcs.		

Accessories

Dimensions

Accessories Industrial Power Relay RT For details see datasheet 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.

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Version with 1 form A (NO) contact available on request.

Product code	Version	Contacts	Cont. material	Coil	Coil	Part Number
RT33C024	16A, pinning 5mm	1 form A (NO) bif.	AgNi 90/10	400mW	24 VDC	8-1415541-5
RT31C012	flux proof	1 form C (CO)		400mW	12 VDC	1415900-2
RT31C024		bifurcated contact		400mW	24 VDC	1415900-7
RTB7D012	12A, 3.5mm		AgNi 90/10	210mW	12 VDC	1415900-5
RTB7D024	wash tight		gold plated	190mW	24 VDC	1415900-6

Other types on request

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This list represents the most common types and does not show all variants covered by this data sheet.

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