

Power PCB Relay RT1 sensitive

- 1 pole 10A, 1 form C (CO) or 1 form A (NO) contact
- Highly sensitive version, coil power 250mW
- 5kV/10mm coil-contact
- **■** Reinforced insulation
- Ambient temperature 85°C

Typical applications Domestic appliances, heating control.











App	prova	als	
VDF	Cert.	No.	4000

07571, UL E214025, cCSAus 1142018 CQC 18002197247

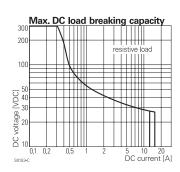
Technical data of approved types on request.

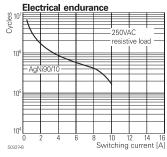
Contact Data					
Contact arrangement	1 form C (CO) or 1 form A (NO)				
Rated voltage	250VAC				
Max. switching voltage	400 VAC				
Rated current	10A				
Limiting making current; max. 4s, duty factor 10% 15A					
Breaking capacity	2500VA				
Contact material	AgNi 90/10				
Frequency of operation; with/without loa	ad 3000/72000h ⁻¹				
Operate/release time max.	10/8ms				
Bounce time max.; form A/form B	4/9ms				

Contact ratings

Contact	aungs		
Туре	Contact	Load	Cycles
IEC 61810)		
RT17*	A (NO)	10A, 250VAC resistive, 85°C	100x10 ³
RTB7*	A (NO)	10A, 250VAC resistive, 85°C	50x10 ³
UL 61810	-1 (former UL	508)	
RT17*	C (CO)	10A, 250VAC, general purpose, 85°C	6x10 ³
RT17*	A/B (NO/NC)	10A, 250VAC, general purpose, 40°C	30x10 ³
RT174	A/B (NO/NC)	B300, 40°C	6x10 ³
RT174	A (NO)	R150, 40°C	6x10 ³
RT174	B (NC)	1/2hp, 240VAC, 40°C	1x10 ³
RT174	A (NO)	3/4hp, 240VAC, 40°C	1x10 ³
EN60730-	-1		
RT174	A (NO)	6(4)A, 250VAC, 85°C	100x10 ³

Mechanical endurance >30x10⁶ operations



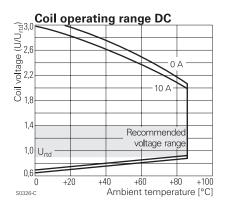


Coil Data	
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
005	5	3.7	0.5	100	250
006	6	4.5	0.6	144	250
009	9	6.8	0.9	312	260
012	12	9.0	1.2	576	250
024	24	18.0	2.4	2304	250
048	48	36.0	4.8	9216	250
060	60	45.0	6.0	128571)	280

1) Coil resistance ±12%.

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



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{ms}	
between contact and coil	5000V	
Clearance/creepage	1110	
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI 250V	



Power PCB Relay RT1 sensitive (Continued)

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 -40 to 85°C

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

Vibration resistance (functional),

form A/form B contact, 30 to 500Hz
Shock resistance (destructive)

Terminal type
Weight

20g/5g
100g
PCB-THT, plug-in
14g

Resistance to soldering heat THT, IEC 60068-2-20

 RTII
 270°C/10s

 RTIII
 260°C/5s

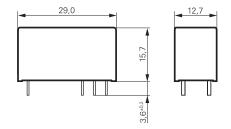
Packaging/unit tube/20 pcs., box/500 pcs.

Accessories

For details see datasheet <u>Accessories Industrial Power Relay RT</u>

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.

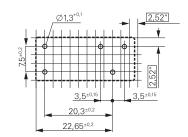
Dimensions



PCB layout / terminal assignment

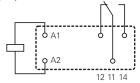
Bottom view on solder pins

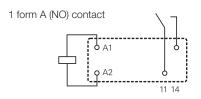
10A, pinning 3.5mm



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

1 form C (CO) contact





Draduat	h and administration		Turing laws that and a	RT	۱	7	4	010
Product code structure			Typical product code		'	′	4	012
Туре								
R'	T Power PCB Relay RT1 sensitive							
Version					-			
1	10A, pinning 3.5mm, flux proof	В	10A, pinning 3.5mm, wash tight					
Contact	configuration					-		
7	1 form C (CO) contact	8	1 form A (NO) contact					
Contact	material							
4	AgNi 90/10	5	AgNi 90/10 gold plated					
Coil								-
Co	oil code: please refer to coil versions table							

Product code	Version	Contacts	Contact material	Coil	Part number
RT174005	Flux proof	1 form C (CO)	AgNi 90/10	5VDC	3-1393239-6
RT174009				9VDC	9-1419143-5
RT174012				12VDC	3-1393239-8
RT174024				24VDC	3-1393239-9
RT175024			AgNi 90/10 gold pl.	24VDC	4-1393239-4
RT184005		1 form A (NO)	AgNi 90/10	5VDC	4-1393239-5
RT184012			-	12VDC	4-1393239-7
RT184024				24VDC	4-1393239-9
RTB84009	Wash tight			9VDC	4-1393238-7
RTB84012				12VDC	1415536-4

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