

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.	

Approvals

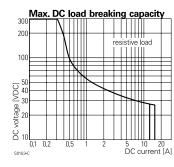
VDE Cert. No. 40007571, UL E214025, cCSAus 1142018	
CQC 18002197247	
Technical data of approved types on request.	

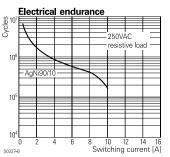
Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400 VAC
Rated current	10A
Limiting making current; max. 4s, duty	factor 10% 15A
Breaking capacity	2500VA
Contact material	AgNi 90/10
Frequency of operation; with/without lo	ad 3000/72000h-1
Operate/release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

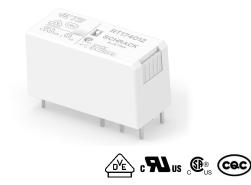
Contact r	atinas		
Type	Contact	Load	Cvcles
IEC 61810		2000	0,0100
RT17*	A (NO)	10A, 250VAC resistive, 85°C	100x10 ³
RTB7*	A (NO)	10A, 250VAC resistive, 85°C	50x10 ³
UL 61810	-1 (former UL	508)	
RT17*	C (CO)	10A, 250VAC, general purpose, 85°C	6x10 ³
RT17*	A/B (NO/NC)	10A, 250VAC, general purpose, 40°C	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

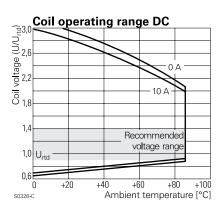
Con Data	
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil versions, DC coil

0011 0010					
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	12857 ¹⁾	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	

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

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Power PCB Relay RT1 sensitive (Continued)

Other Data

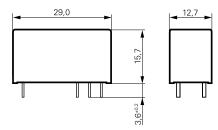
Material compliance: EU RoHS/ELV, Ch	aterial compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the Pro	refer to the Product Compliance Support Center at					
www.te.com/	customersupport/rohssupportcenter					
Ambient temperature	-40 to 85°C					
Category of environmental protection						
IEC 61810 R	RTII - flux proof, RTIII - wash tight					
Vibration resistance (functional),						
form A/form B contact, 30 to 500Hz	20g/5g					
Shock resistance (destructive)	100g					
Terminal type	PCB-THT, plug-in					
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

 For details see datasheet
 Accessories Industrial Power Relay RT

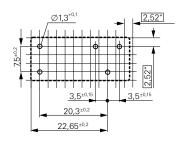
 NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions



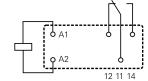
PCB layout / terminal assignment Bottom view on solder pins

10A, pinning 3.5mm



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





1 form A (NO) contact

Product code structure	Typical product code RT 1	7	4 012
Туре			
RT Power PCB Relay RT1 sensitive			
Version			
1 10A, pinning 3.5mm, flux proof	B 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			
Cail aadau plaasa rafar ta aail varaiana tabla			

Coil 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
BTB84012				12VDC	1415536-4

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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