

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



F0145-C

Approvals

VDE REG.-Nr. 6106,UL E214025, cCSAus 14385 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		

Туре	itings Contact	Load	Cvcles
IEC 61810			
RT174	A/B (NO/NC)	10A, 250VAC resistive, 85°C	100x10 ³
UL 508			
RT174	C (CO)	10A, 250VAC, general purpose, 85°C	6x10 ³
RT174	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

6(4)A, 250VAC, 85°C

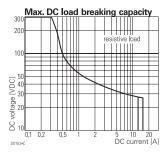
Mechanical endurance

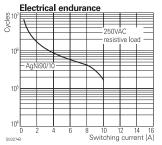
A (NO)

EN60730-1 RT174

>3<u>0x10⁶ operations</u>

100x10³





Coil Data

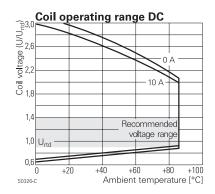
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil versions DC coil

COIL AGE		11			
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 _{rms}	
between contact and coil	5000Vrms	
Clearance/creepage		
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI 250V	

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets 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

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

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Power PCB Relay RT1 sensitive (Continued)

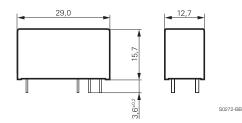
Other Data

other butu				
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refe	refer to the Product Compliance Support Center at			
www.te.com/customersupport/rohssupportcente				
Ambient temperature	-40 to 85°C			
Category of environmental p	rotection			
IEC 61810	RTII - flux proof, RTIII - wash tight			
Vibration resistance (function	nal),			
form A/form B contact, 30	0 to 500Hz 20g/5g			
Shock resistance (destructiv	e) 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

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.

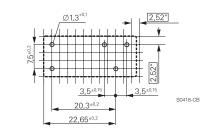
Dimensions



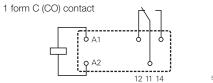
PCB layout / terminal assignment

Bottom view on solder pins

10A, pinning 3.5mm



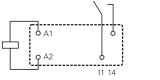
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.



S0163-BG

S0163-BH

1 form A (NO) contact



Product code structure 012 Typical product code RT 1 7 4 Туре RT Power PCB Relay RT1 sensitive Version 10A, pinning 3.5mm, flux proof B 10A, pinning 3.5mm, wash tight 1 **Contact configuration** 7 1 form C (CO) contact 8 1 form A (NO) contact **Contact material** 4 AgNi 90/10 Coil 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		contact	-	9VDC	9-1419143-5
RT174012				12VDC	3-1393239-8
RT174024				24VDC	3-1393239-9
RT184005		1 form A (NO)		5VDC	4-1393239-5
RTB84009	Wash tight	contact		9VDC	4-1393238-7

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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