

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 Technical data of approved types on request.

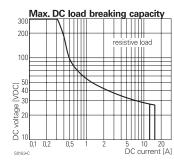
oomao	· Data				
Contact a	arrangement	1 form C (CO) or 1 form A	(NO)		
Rated vol	tage	250VAC			
Max. swit	ching voltage	400 VAC			
Rated cu	rrent	10A			
Limiting n	naking current; n	nax. 4s, duty factor 10% 15A			
Breaking	capacity	2500VA			
Contact r	naterial	AgNi 90/10			
Frequenc	y of operation; w	vith/without load 3000/72000h1			
Operate/r	Operate/release time max. 10/8ms				
Bounce ti	me max.; form A	Vform B 4/9ms			
Contact					
Type	Contact	Load	Cycles		
IEC 6181 RT174	-	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	30x103		
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		

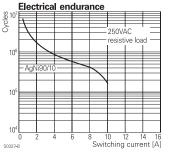
6(4)A, 250VAC, 85°C

EN60730-1 RT174 A (NO)

Mechanical endurance

>30x10⁶ operations





100x103

Coil Data

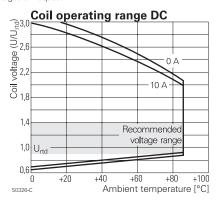
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil versions, DC coil

l Operate	Release	Coil	D
	5100.00	Coil	Rated coil
e voltage	voltage	resistance	power
VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
3.7	0.5	100	250
4.5	0.6	144	250
6.8	0.9	312	260
9.0	1.2	576	250
	2.4	2304	250
4 36.0	4.8	9216	250
45.0	6.0	12857 ¹⁾	280
	e voltage VDC 3.7 4.5 6.8 9.0 8.0 36.0	e voltage voltage VDC VDC 3.7 0.5 4.5 0.6 0.9 9.0 1.2 2.4 4.8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

060 60 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

mound on Bata		
Initial dielectric strength		
between open contacts	1000V_ms	
between contact and coil	5000V	
Clearance/creepage	mo	
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI 250V	

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

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	ina RoHS, REACH, Halogen content
refer to the Pro	oduct 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.

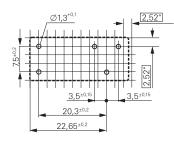
Accessories

 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.

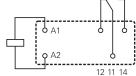
PCB layout / terminal assignment Bottom view on solder pins

10A, pinning 3.5mm



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





Dimensions



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	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							
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
BTB84009	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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TE Connectivity: RT174005

