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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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.

**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 load	3000/72000h <sup>-1</sup>
Operate/release time max.	10/8ms
Bounce time max.; form A/form B	4/9ms

**Contact ratings**

Type	Contact	Load	Cycles
RT174	A/B (NO/NC)	10A, 250VAC resistive, 85°C	100x10 <sup>3</sup>

**IEC 61810**

RT174	A/B (NO/NC)	10A, 250VAC, 85°C	100x10 <sup>3</sup>
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**UL 508**

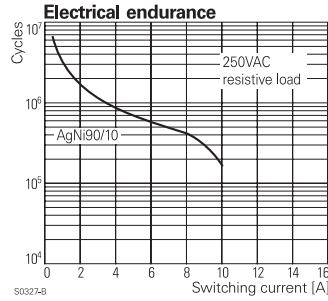
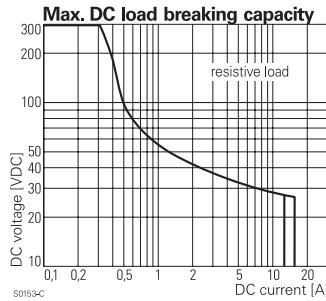
RT174	C (CO)	10A, 250VAC, general purpose, 85°C	6x10 <sup>3</sup>
RT174	A/B (NO/NC)	10A, 250VAC, general purpose, 40°C	30x10 <sup>3</sup>
RT174	A/B (NO/NC)	B300, 40°C	6x10 <sup>3</sup>
RT174	A (NO)	R150, 40°C	6x10 <sup>3</sup>
RT174	B (NC)	1/2hp, 240VAC, 40°C	1x10 <sup>3</sup>
RT174	A (NO)	3/4hp, 240VAC, 40°C	1x10 <sup>3</sup>

**EN60730-1**

RT174	A (NO)	6(4)A, 250VAC, 85°C	100x10 <sup>3</sup>
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**Mechanical endurance**

>30x10<sup>6</sup> operations


**Coil Data**

Coil voltage range 5 to 60VDC

Operative range, IEC 61810 2

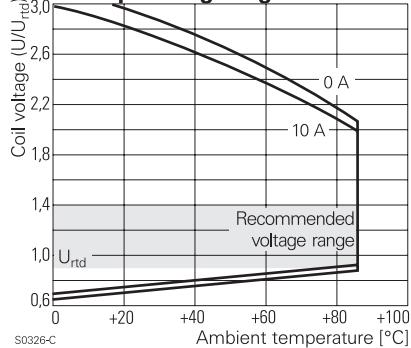
Coil insulation system according UL class F

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$ <sup>1)</sup>	Rated coil power 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 <sup>1)</sup>	280

1) Coil resistance  $\pm 12\%$ .

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

**Coil operating range DC**

**Insulation Data**

Initial dielectric strength

1000V<sub>rms</sub>

between open contacts

5000V<sub>rms</sub>

between contact and coil

Clearance/creepage

$\geq 10/10\text{mm}$

between contact and coil

IIIa

Material group of insulation parts

PTI 250V

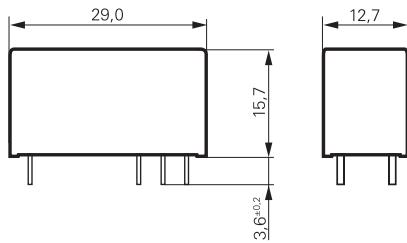
Tracking index of relay base

**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 <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>
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 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	<a href="#">Accessories Industrial Power Relay RT</a>
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**

**Product code structure**

Type	RT	Power PCB Relay RT1 sensitive	Typical product code	RT	1	7	4	012
Version	<b>A</b>	10A, pinning 3.5mm, flux proof	<b>B</b>	10A, pinning 3.5mm, wash tight				
Contact configuration	<b>7</b>	1 form C (CO) contact	<b>8</b>	1 form A (NO) contact				
Contact material	<b>4</b>	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) contact	AgNi 90/10	5VDC	3-1393239-6
RT174009				9VDC	9-1419143-5
RT174012				12VDC	3-1393239-8
RT174024				24VDC	3-1393239-9
RT184005		1 form A (NO) contact		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.