

**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.

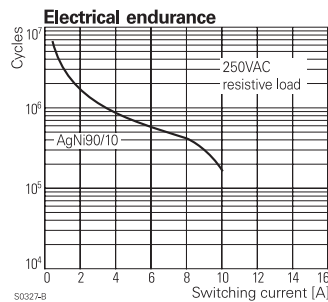
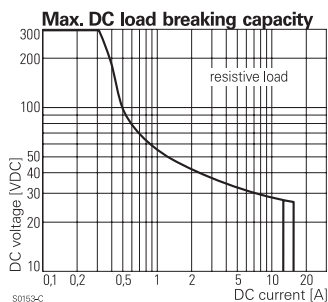
**Contact Data**

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
<b>IEC 61810</b>			
RT174	A/B (NO/NC)	10A, 250VAC resistive, 85°C	100x10 <sup>3</sup>
<b>UL 508</b>			
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>
<b>EN60730-1</b>			
RT174	A (NO)	6(4)A, 250VAC, 85°C	100x10 <sup>3</sup>

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



**Coil Data**

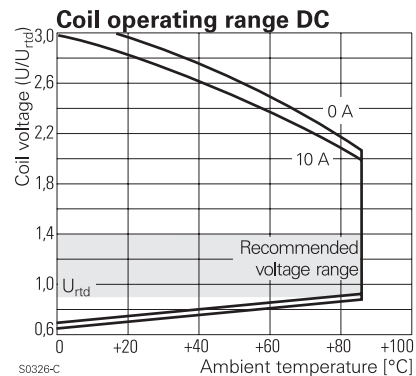
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±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 ±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 <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIa
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](http://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	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**

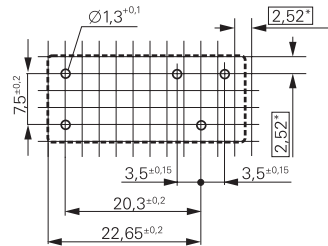
For details see datasheet [Accessories Industrial Power Relay RT](#)

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**

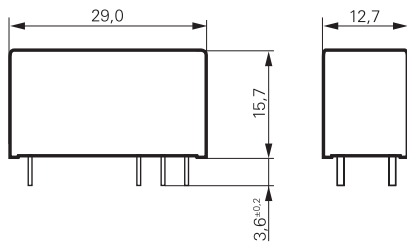
Bottom view on solder pins

10A, pinning 3.5mm

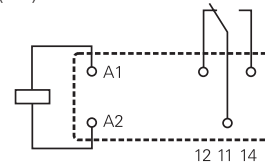


\*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

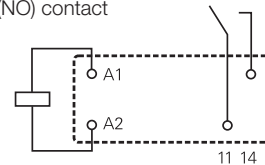
**Dimensions**



1 form C (CO) contact



1 form A (NO) contact



**Product code structure**

Typical product code **RT 1 7 4 012**

<b>Type</b>	RT Power PCB Relay RT1 sensitive				
<b>Version</b>	<b>1</b> 10A, pinning 3.5mm, flux proof	<b>B</b> 10A, pinning 3.5mm, wash tight			
<b>Contact configuration</b>	<b>7</b> 1 form C (CO) contact	<b>8</b> 1 form A (NO) contact			
<b>Contact material</b>	<b>4</b> AgNi 90/10				
<b>Coil</b>	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			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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