

**Power PCB Relay RT1 sensitive**

- 1 pole 10 A, 1 CO or 1 NO contact
- Highly sensitive version, coil power 250 mW
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- Ambient temperature 85°C at rated load
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413



F0145-B

**Applications**

Domestic appliances, heating control

**Approvals**

VDE REG.-Nr. 6106, **UL** US E214025, **CS** 14385  
 Technical data of approved types on request

**Contact data**

Contact configuration	1 CO or 1 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	10 A
Rated voltage / max.switching voltage AC	250/400 VAC
Maximum breaking capacity AC	2500 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi 90/10
Mechanical endurance	> 30 x 10 <sup>6</sup> cycles
Rated frequency of operation with / without load	50 / 1200 min <sup>-1</sup>

**Contact ratings**

Type	Load	Cycles
RT174	10 A, 250 VAC, CO contact, 85°C, EN61810-1	100x10 <sup>3</sup>
RT174	8 A, 250 VAC	430x10 <sup>3</sup>
RT174	370 W, 230 VAC, compressor	>330x10 <sup>3</sup>
RT174	550 W, 250 VAC, incandescent lamps	190x10 <sup>3</sup>
RT174	0.8/0.08 A, 230 VAC, cosφ=0,23, contactor 190/90 VA	>8,8x10 <sup>6</sup>
RT184	Pilot duty B300, R150, UL508	6x10 <sup>3</sup>
RT174	3/4hp @ 240 VAC, 1/3hp @ 120 VAC, NO contact, UL508	
RT174	1/2hp @ 240 VAC, 1/4hp @ 120 VAC, CO contact, UL508	

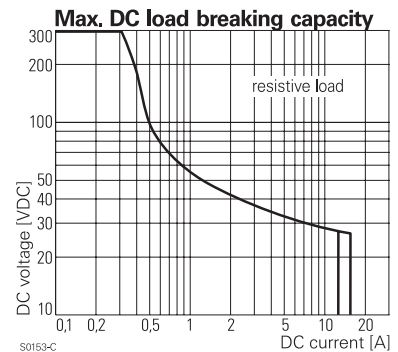
**Coil data**

Rated coil voltage range DC coil	5...60 VDC
Coil power DC coil	typ 250 mW
Operative range	2
Coil Coil insulation system according UL1446	class F

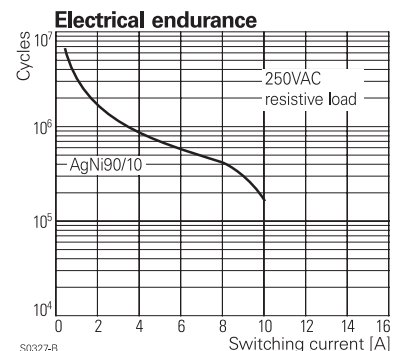
**Coil versions, DC-coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω	Rated coil power mW
005	5	3.7	0.5	100±10%	250
006	6	4.5	0.6	144±10%	250
<b>012</b>	<b>12</b>	<b>9.0</b>	<b>1.2</b>	<b>576±10%</b>	<b>250</b>
<b>024</b>	<b>24</b>	<b>18.0</b>	<b>2.4</b>	<b>2304±10%</b>	<b>250</b>
048	48	36.0	4.8	9216±10%	250
060	60	45.0	6.0	12857±12%	280

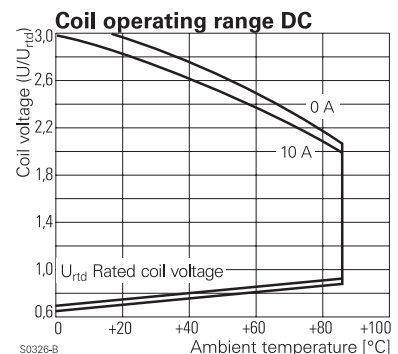
All figures are given for coil without preenergization, at ambient temperature +23°C  
 Other coil voltages on request



S0153-C



S0327-B



S0326-B

**Power PCB Relay RT1 sensitive (Continued)**

**Insulation**

Dielectric strength coil-contact circuit	5000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	> 10 / 10 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250 V
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	micro disconnector
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	250/400 V
Overvoltage category	III

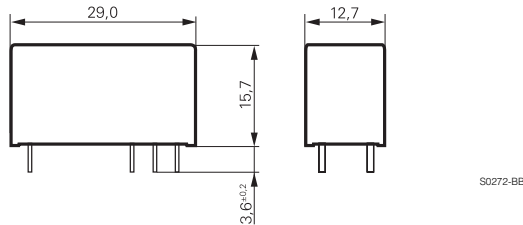
**Other data**

RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Ambient temperature range	-40...+85°C
Operate- / release time	typ 7 / 3 ms
Bounce time NO / NC contact	typ 2 / 4 ms
Vibration resistance (function) NO / NC contact	20 / 5 g, 30 ... 500 Hz
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof, RTIII - wash tight
Mounting	pcb or on socket
Mounting distance	0 mm
Resistance to soldering heat flux-proof version	270°C / 10 s
wash-tight version	260°C / 5 s
Relay weight	14 g
Packaging unit	20 / 500 pcs

**Accessories**

For details see datasheet Accessories Power Relay RT

**Dimensions**



**Product key**

Type

Version

**1** 10 A, pinning 3.5 mm, flux proof      **B** 10 A, pinning 3.5 mm, wash tight

Contact configuration

**7** 1 CO contact      **8** 1 NO contact

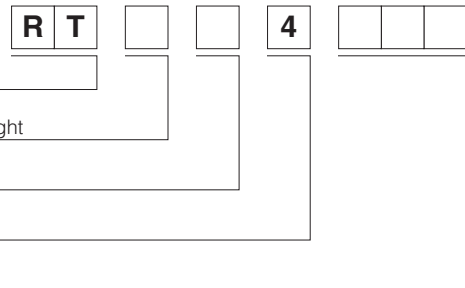
Contact material

**4** AgNi 90/10

Coil

Coil code: please refer to coil versions table

Preferred types in bold print

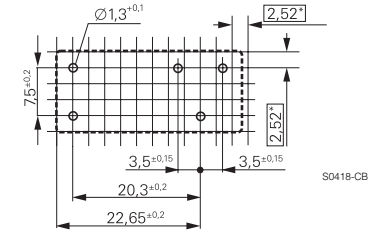


Product key	Version	Contacts	Contact material	Coil	Part number
RT174005	10 A	1 CO contact	AgNi 90/10	5 VDC	3-1393239-6
RT174006	pinning 3.5 mm			6 VDC	3-1393239-7
RT174012	flux proof			12 VDC	3-1393239-8
RT174024				24 VDC	3-1393239-9
RTB74012	10 A, 3.5mm			12 VDC	4-1393238-4
RTB74024	wash tight			24 VDC	4-1393238-6

**PCB layout / terminal assignment**

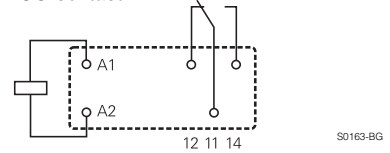
Bottom view on solder pins

10 A, pinning 3.5 mm



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

**1 CO contact**



**1 NO contact**

