

## **Power PCB Relay RTX**

25x10<sup>3</sup>

- 1 pole 16A, 1 form A (NO) contact (W pre-make contact + AgSnO<sub>2</sub>)
- 16A rated fluorescent load
- 140µF load, 16A/250V, 30000 operations
- **■** Bistable coil
- 5kV/10mm coil-contact
- **■** Reinforced insulation

### Typical applications

Lighting control systems, movement sensors (e.g. passive infrared sensors), home automation applications (bus systems, remote switching), electronic switches for fixed installation



Contact Data	
Contact arrangement	1 form A (NO) contact
Rated voltage	250VAC
Rated current	16A
Limiting making current	
incandescent lamps	200A peak
flourescent lamps	320A peak
Breaking capacity max.	4000VA
Contact material	W (pre-make cont.)+AgSnO <sub>2</sub>
Contact style	pre-make contact
Frequency of operation, with/without loa	ad 720/7200h <sup>-1</sup>
Operate/ Reset time max.	7/5 ms
Bounce time max.	4 ms

Contact ratings	
Load	Cycles
IEC 61810	
16A, 250VAC resistive, 70°C	10x10 <sup>3</sup>
IEC 60669-1 (planned)	
16A; 250V	
UL 61810-1 (former UL 508)	
16A, 250VAC, general purpose, 70°C	15x10 <sup>3</sup>

Mechanical endurance >10 <sup>5</sup> operations
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Coil Data, bistable coils	1 coil	2 coils
Magnetic system	polarized,	bistable
Coil voltage range	3 to 48	VDC
Min./Max. energization duration	30ms/1min a	it < 10% df
Coil insulation system according UL1446	class	s F

Coil vers	ions, bistab	le coil			
Coil	Rated	Set	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
Coil vers	ions, bistab	le 1 coil			
B003	3	2.25	2.25	14	650
B005	5	3.75	3.75	38	650
B006	6	4.5	4.5	55	650
B009	9	6.8	6.8	120	665
B012	12	9.0	9.0	220	650
B024	24	18.0	18.0	890	650
B048	48	36.0	36.0	3540	650
Coil vers	ions, bistab	le 2 coils			
C012	12	9.0	9.0	150	950
C024	24	18.0	18.0	610	950





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

2	2 coil:	S
A1	АЗ	A2
	+	-
-	+	
+		
		2 coil A1 A3 + - +

Initial dielectric strength	
between open contacts	
new	1250Vrms
after test with 250VAC	500Vrms
between contact and coil	5000Vrms
Clearance/creepage	
between contact and coil	≥ 6/6mm
Distance through solid insulation	> 2mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250V

Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40 to 70°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional)	15g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Weight	11g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s
Packaging/unit	tube/20 pcs., box/500 pcs.

TV16, 277VAC, 70°C

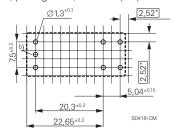


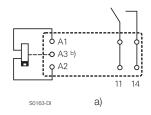
# Power PCB Relay RTX (Continued)

#### PCB layout / terminal assignment

Bottom view on solder pins

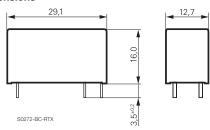
#### 16A, pinning 5mm, 1 form A (NO) contact





- a) Indicated contact position during or after coil energization with reset voltage.
- b) for 2 coil version only

#### **Dimensions**



Product code structure		Typical product code	RTX	3	-1A	Т	-B012
Туре			J				
RTX	Power PCB Relay RTX						
Version	-			•			
<b>3</b> 16A, double pinning 5mm							
Contact arrangement					-		
<b>1A</b> 1 form A (1 NO)							
Contact material							
T W (pre-make cont.)+AgSnO							
Coil version							
Coil code: please refer to coil versions table							

Product code	Contacts	Contact material	Coil Version	Coil	Part number
RTX3-1AT-B003	1 NO contact	W(pre-make) + AgSnO	bistable 1 coil	3 VDC	1937650-1
RTX3-1AT-B005				5 VDC	1937650-2
RTX3-1AT-B006				6 VDC	1937650-3
RTX3-1AT-B009				9 VDC	1937650-4
RTX3-1AT-B012				12 VDC	1937650-5
RTX3-1AT-B024				24 VDC	1937650-6
RTX3-1AT-B048				48 VDC	1937650-7
RTX3-1AT-C012			bistable 2 coil	12 VDC	1937650-8
RTX3-1AT-C024				24 VDC	1937650-9

Other types on request

This list represents the most common types and does not show all variants covered by this datasheet.