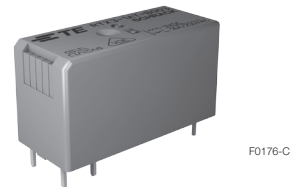


**Power PCB Relay RTX**

- 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



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

Approvals	
VDE 40035087; UL E214025	
Technical data of approved types on request	

Contact Data	
Contact arrangement	1 form A (NO) contact
Rated voltage	250VAC
Rated current	16A
Limiting making current	
incandescent lamps	200A peak
fluorescent 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 load	720/7200h <sup>-1</sup>
Operate/ Reset time max.	7/5 ms
Bounce time max.	4 ms

Contact ratings	
Load	Cycles
<b>IEC 61810</b>	
16A, 250VAC resistive, 70°C	10x10 <sup>3</sup>
<b>IEC 60669-1 (planned)</b>	
16A; 250V	
<b>UL508</b>	
16A, 250VAC, general purpose, 70°C	15x10 <sup>3</sup>
TV16, 277VAC, 70°C	25x10 <sup>3</sup>
Mechanical endurance	>10 <sup>5</sup> operations

Coil Data, bistable coils	1 coil	2 coils
Magnetic system	polarized, bistable	
Coil voltage range	3 to 48VDC	
Min./Max. energization duration	30ms/1min at < 10% df	
Coil insulation system according UL1446	class F	

Coil versions, bistable coil					
Coil code	Rated voltage VDC	Set voltage VDC	Reset voltage VDC	Coil resistance Ω±10%	Rated coil power mW

Coil versions, bistable 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 versions, bistable 2 coils					
C012	12	9.0	9.0	150	950
C024	24	18.0	18.0	610	950

**Coil data (continued)**

Bistable coils - operation					
Version	1 coil		2 coils		
Coil terminals	A1	A2	A1	A3	A2
Operate	+	-	+	-	
Reset	-	+	-	+	
Contact position not defined at delivery					

Insulation Data	
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

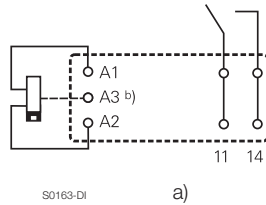
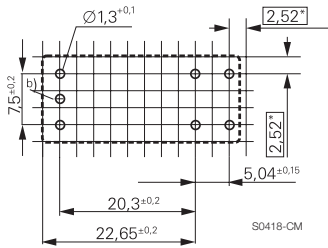
Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40 to 70°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional)	15g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Weight	11g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s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

**Power PCB Relay RTX (Continued)**

**PCB layout / terminal assignment**

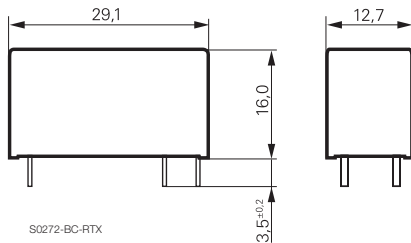
Bottom view on solder pins

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 T -B012**

<b>Type</b>	<b>RTX</b>	Power PCB Relay RTX
<b>Version</b>	<b>3</b>	16A, double pinning 5mm
<b>Contact arrangement</b>	<b>1A</b>	1 form A (1 NO)
<b>Contact material</b>	<b>T</b>	W (pre-make cont.)+AgSnO
<b>Coil version</b>		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.

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