

Power PCB Relay RTX

- 1 pole 16A, 1 form A (NO) contact (W pre-make contact + AgSnO₂)
- 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



F0176-C



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 ₂
Contact style	pre-make contact
Frequency of operation, with/without load	720/7200h ⁻¹
Operate/ Reset time max.	7/5 ms
Bounce time max.	4 ms

Contact ratings

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

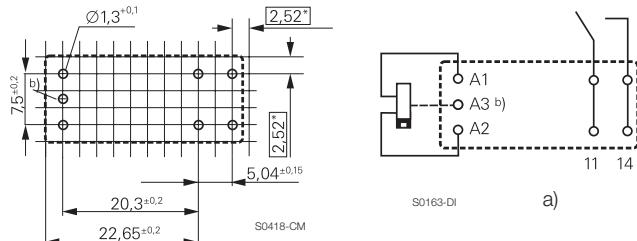
Coil code	Rated voltage VDC	Set voltage VDC	Reset voltage VDC	Coil resistance Ω±10%	Rated coil power mW
Coil versions, bistable 1 coil					
B003	3	2.25	2.25	14	650
B005	5	3.75	3.75	38	650
B006	6	4.5	4.5	55	650
B009	9	6.8	6.8	120	665
B012	12	9.0	9.0	220	650
B024	24	18.0	18.0	890	650
B048	48	36.0	36.0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

Power PCB Relay RTX (Continued)

PCB layout / terminal assignment

Bottom view on solder pins

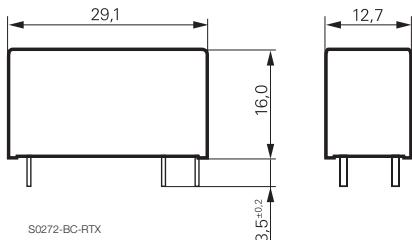
16A, pinning 5mm, 1 form A (NO) contact



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	
Type	RTX	Power PCB Relay RTX				
Version	3	16A, double pinning 5mm				
Contact arrangement	1A	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.

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[TE Connectivity:](#)

[RTX3-1AT-B024](#)