

Power PCB Relay RTX

- 1 pole 16A, 1 form A (NO) contact (W pre-make contact + AgSnO₂)
- 16A rated fluorescent load according to EN60669-1
- 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

Approvals

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

Contact	Data
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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 ₂
Contact style	pre-make contact
Frequency of operation, with/without load	d 720/7200h ⁻¹

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 >10⁵ 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 a	t < 10% df		
Coil insulation system according UL1446	class	; F		

Coil versions, bistable coil

0011 1010	nono, biotab						
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	Coil versions, bistable 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.



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	Illa
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
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.

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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General Purpose Relays PCB Relays

SCHRACK

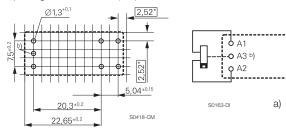
Power PCB Relay RTX (Continued)

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PCB layout / terminal assignment

Bottom view on solder pins

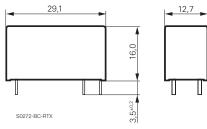
16A, pinning 5mm, 1 form A (NO) contact



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]				
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	Э						

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.

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

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