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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

Approvals

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

Contact Data

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 ₂			
Contact style	pre-make contact			
Frequency of operation, with/without loa	ad 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	C 15x10 ³			
TV16, 277VAC, 70°C	25x10 ³			

Mechanical endurance

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

Coil versions, bistable coil

Coil	Rated	Set	Reset	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	Ω±10%	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			

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>10⁵ operations



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

moulation 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

other butu	
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.

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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



General Purpose Relays PCB Relays

SCHRACK

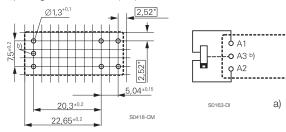
Power PCB Relay RTX (Continued)

11 14

PCB layout / terminal assignment

Bottom view on solder pins

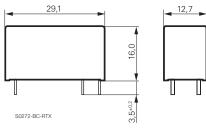
16A, pinning 5mm, 1 form A (NO) contact



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						

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.

2

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

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