

## **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

#### 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 <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>2</sup>			
IEC 60669-1 (planned)				
16A; 250V				
UL508				
16A, 250VAC, general purpose, 70°C	C 15x10 <sup>2</sup>			
TV16, 277VAC, 70°C	25x10 <sup>3</sup>			

Mechanical endurance

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

#### Coil versions, bistable coil

0011 0010	nonio, biotab							
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			

05-2014, Rev. 0514 www.te.com © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company

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

>10<sup>5</sup> 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	10	coil	2 coils
Coil terminals	A1	A2	A1 A3 A2
Operate	+	-	+ -
Reset	-	+	- +
Contact position not defined at delivery			

#### Insulation Data

modiation 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

o mor 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.

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.

1



General Purpose Relays PCB Relays

## SCHRACK

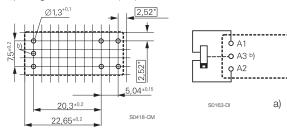
## Power PCB Relay RTX (Continued)

11 14

#### PCB layout / terminal assignment

Bottom view on solder pins

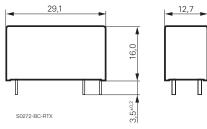
16A, pinning 5mm, 1 form A (NO) contact



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							
<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 tabl	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.

2

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

05-2014, Rev. 0514 <u>www.te.com</u> © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company 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 <a href="http://relays.te.com/definitions">http://relays.te.com/definitions</a>

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

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

 APF30318
 JVN1AF-4.5V-F
 PCN-105D3MHZ
 5JO-10000S-SIL
 5JO-1000CD-SIL
 5JO-400CD-SIL
 LY2S-AC220/240
 LYQ20DC12

 6031007G
 6131406HQ
 6-1393099-3
 6-1393099-8
 6-1393122-4
 6-1393123-2
 6-1393767-1
 6-1393843-7
 6-1415012-1
 6-1419102-2
 6 

 1423698-4
 6-1608051-6
 6-1608067-0
 6-1616170-6
 6-1616248-2
 6-1616348-2
 6-1616350-1
 6-1616350-8
 6-1616358-7
 6 

 1616359-9
 6-1616360-9
 6-1616931-6
 6-1617039-1
 6-1617052-1
 6-1617090-2
 6-1617347-5
 6-1617353-3
 6-1617801-8
 6 

 1617802-2
 6-1618107-9
 6-1618248-4
 M83536/1-027M
 CX-4014
 MAHC-5494
 MAVCD-5419-6
 703XCX-120A
 7-1393100-5
 7-1393111-7

 7-1393144-5
 7-1393767-8