

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



Lighting control systems, movement sensors (e.g. passive infrared sensors), home automation applications (bus systems, remote switching), electronic switches for fixed installation



| 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 |

| 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, b | oistable |
| Coil voltage range | 3 to 48\ | /DC |
| Min./Max. energization duration | 30ms/1min at | < 10% df |
| Coil insulation system according UL1446 | class | F |

| Coil ver | sions, bistable | e coil |
|----------|-----------------|--------|
| Coil | Rated | Set |

| 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 | ions, bistab | le 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.

| Con uata (Continuec | Coil | data | (continued |
|---------------------|------|------|------------|
|---------------------|------|------|------------|

| Version | 1 | coil | | 2 coils | 3 |
|----------------|----|------|----|---------|----|
| Coil terminals | A1 | A2 | A1 | АЗ | A2 |
| Operate | + | - | | + | - |
| Reset | - | + | - | + | |

| 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. |

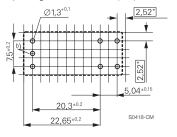


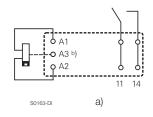
Power PCB Relay RTX (Continued)

PCB layout / terminal assignment

Bottom view on solder pins

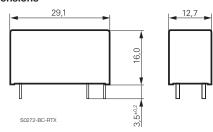
16A, pinning 5mm, 1 form A (NO) contact





- 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 | Т | -B012 |
|---|---------------------|----------------------|-----|---|-----|---|-------|
| Туре | | | J | | | | |
| 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 tabl | e | | | | | | |

| 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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