



UL,C-UL File No.:E179745
TUV File No.:R50038852/3
CQC File No.:CQC02001002125

- Miniature package with universal terminal footprint P.C. board technique.
- High dielectric withstanding for transient protection. 10,000 V surge in msec between coil and contact.

SPECIFICATIONS

Contact

| | | |
|------------------------------------------------|----------------------------|-------------------|
| Arrangement | 2a, 2c | |
| Contact material | Silver alloy | |
| Contact resistive (By voltage drop 1A 6VDC) | 50 mΩ Max. | |
| UL/C-UL rating | | |
| Resistive load (cos φ =1) | 5A | 250VAC |
| | 5A | 24VDC |
| Inductive load (cos φ =0.75~0.8) | 2A | 240VAC |
| | 2A | 120VAC |
| TUV rating | 5A | 240VAC |
| | 5A | 30VDC |
| CQC rating | 5A/40A | 250VAC |
| Max.switching voltage | 250VAC | 30VDC |
| Max.switching current | 5A | |
| Max.switching power | 1,250VA | 120W |
| Exoected life(min.ope) | Mechanical (at 180 cpm) | 1X10 ⁷ |
| | Electrical (at 20 cpm) | 1X10 ⁵ |

Characteristics

| Item | Type | SMI-D | SMI-L |
|---------------------------------|-----------------------------|------------------------------------------|---------------|
| | Operate time | | 15 msec. Max. |
| Release time | | 8 msec.Max. | |
| Operating humidity | | 45~80% RH | |
| Initial breakdown voltage | Between contact and coil | 5,000VAC (50/60Hz) for 1 min. | |
| | Between open contacts | 1,000VAC (50/60Hz) for 1 min. | |
| Ambient temperature | | -40℃~+85℃ | |
| Surge voltage | | 10,000V (between coil contacts) | |
| Shock resistance | Functional | 10G Min. | |
| | Destruction | 100G Min. | |
| Vibration resistance | Functional | 10 TO 55 Hz at double Amplitude of 1.5mm | |
| | Destruction | 10 TO 55 Hz at double Amplitude of 1.5mm | |
| Temperature rise (Max.) | | 45℃ | 35℃ |
| Unit weight | | Approx. 15g | |

Coil

| | |
|-------------------------|--------------|
| Nominal operating power | 0.54W, 0.72W |
|-------------------------|--------------|

TYPICAL APPLICATION

1. Cooking appliances
2. Airconditioners
3. Audio equipment.
4. Domestic appliances
5. Industrial equipment etc.

ORDERING INFORMATION

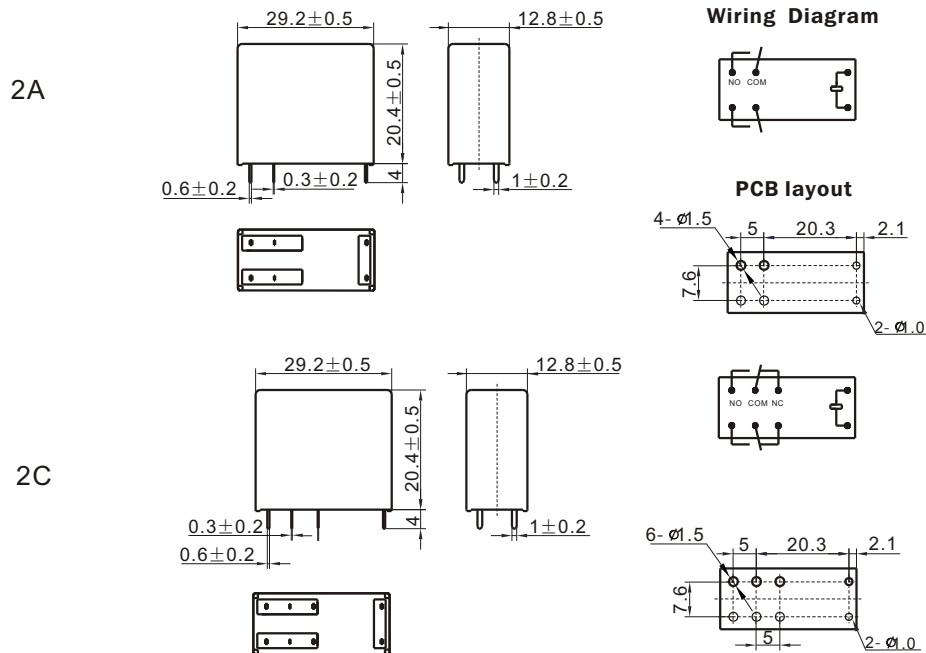
| Type | Protective construction | Number of pole | Coil type | Coil sensitivity | Contact form |
|------|---------------------------------|----------------|-----------------------------|--------------------|----------------------------|
| SMI | NIL:Flux type S:Seadled type | 2:2 pole | 03,05,06,09, 12,18,24,48 | D:0.72W L:0.54W | M:2 Form A Nil:2 Form C |

COIL(at 20°C)

SMI-2P

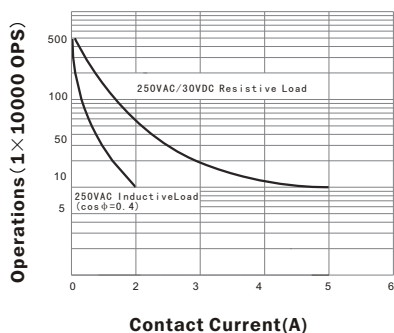
| Type | Voltage code | Nominal voltage (VDC) | Nominal current (mA) | Coil resistance ($\Omega \pm 10\%$) | Drop-out voltage (VDC) | Pick-up voltage (VDC) | Nominal operating power (W) | Max allowable voltage (VDC) |
|-------|--------------|-----------------------|----------------------|---------------------------------------|------------------------|-----------------------|-----------------------------|-----------------------------|
| SMI-D | 03 | 3 | 240.00 | 12.5 | 5%Min. | 80%Max. | 0.72 | 130% of nominal voltage |
| | 05 | 5 | 138.89 | 36 | | | | |
| | 06 | 6 | 120.00 | 50 | | | | |
| | 09 | 9 | 78.26 | 115 | | | | |
| | 12 | 12 | 60.00 | 200 | | | | |
| | 18 | 18 | 40.00 | 450 | | | | |
| | 24 | 24 | 29.27 | 820 | | | | |
| | 48 | 48 | 14.55 | 3,300 | | | | |
| SMI-L | 03 | 3 | 176.47 | 17 | 5%Min. | 80%Max. | 0.54 | 130% of nominal voltage |
| | 05 | 5 | 108.70 | 46 | | | | |
| | 06 | 6 | 89.55 | 67 | | | | |
| | 09 | 9 | 60.00 | 150 | | | | |
| | 12 | 12 | 44.94 | 267 | | | | |
| | 18 | 18 | 30.00 | 600 | | | | |
| | 24 | 24 | 22.49 | 1,067 | | | | |
| | 48 | 48 | 11.25 | 4,267 | | | | |

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)

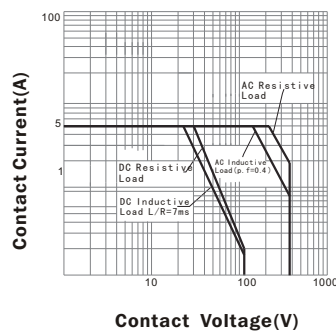


CHARACTERISTICS CURVE

LIFE CURVE



MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE

