

# KT-603

## GENERAL PURPOSE POWER RELAY

**KYOTA**

**RU** us E331430

19.2×15.5×15.5



- 10A switching capability
- Small footprint
- Sealed type available
- Class B/F available
- Conform to RoHS, ELV directive

### CONTACT DATA

|                       |  |
|-----------------------|--|
| Contact Form          | 1A/1C  |
| Contact Material      | Silver Alloy   |
| Load                  | Resistive load(COS Φ=1)                              |
| Contact Ratings       | 1A:10A 240VAC 12A 120VAC<br>1C: 7A 240VAC 10A 120VAC |
| Minimum load          | 100mA 5VDC   |
| Max Switching Voltage | 250VAC/30VDC   |
| Max Switching Current | 15A  |
| Max Switching Power   | 2770VA/240W  |
| Contact Resistance    | 100m Ω Max at 6VDC 1A                                |
| Electrical            | 100, 000<br>Operations(at30 Operations/minute)       |
| Mechanical            | 10, 000, 000<br>Operations(at300 Operations/minute)  |

### CHARACTERISTICS DATA

|                           |   |
|---------------------------|---|
| Insulation Resistance     | 100M Ω Min at 500VDC  |
| Between Open Contacts     | 750VAC(50/60Hz for one minute)                                      |
| Between Contacts and Coil | 1500VAC(50/60Hz for one minute)                                     |
| Operate Time              | 10ms  |
| Release Time              | 5ms   |
| Temperature Range         | -40℃ to +85℃  |
| Shock Resistance          | Operating Extremes: 10G   |
|                           | Damage Limits: 100G   |
| Vibration Resistance      | 10-55Hz, 1.5mm  |
| Max. switching frequency  | Mechanical: 18,000 operations/hr<br>Electrical: 1,800 operations/hr |
| Humidity                  | 40-85%  |
| Weight                    | Approx 10g  |

### COIL DATA

at 20℃

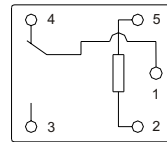
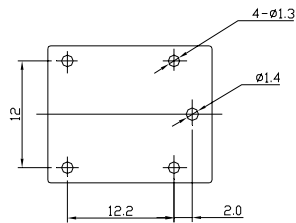
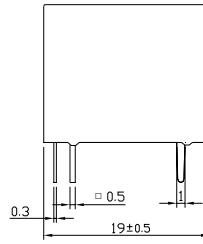
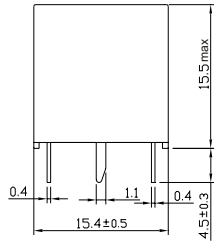
Coil Power 0.36W

| Nominal Voltage (VDC) | Rated Current (mA) | Max Operate Voltage (VDC) | Min Release Voltage (VDC) | Coil Resistance (Ω ±10%) |
|-----------------------|--------------------|---------------------------|---------------------------|--------------------------|
| 3                     | 120                | 2.25                      | 0.15                      | 25                       |
| 5                     | 71.4               | 3.75                      | 0.25                      | 69                       |
| 6                     | 60                 | 4.5                       | 0.3                       | 100                      |
| 9                     | 40                 | 6.75                      | 0.45                      | 225                      |
| 12                    | 30                 | 9                         | 0.6                       | 400                      |
| 18                    | 20                 | 13.5                      | 0.9                       | 900                      |
| 24                    | 15                 | 18                        | 1.2                       | 1600                     |
| 48                    | 7.5                | 36                        | 2.4                       | 6400                     |

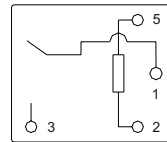
### APPROVED STANDARDS

|          |  |
|----------|--|
| UL & cUL | 1A:10A 240VAC 12A 120VAC<br>1C: 7A 240VAC 10A 120VAC |
|----------|--|

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND LAYOUT



Form C

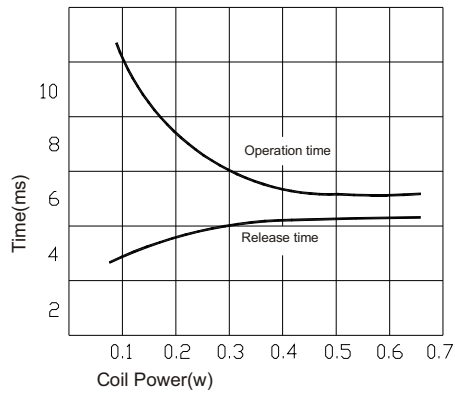


Form A

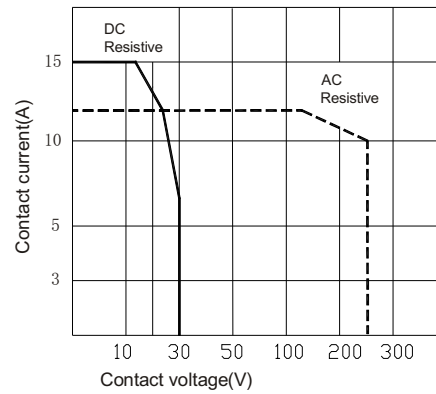
Layout (Bottom View)

## ENGINEERING DATA

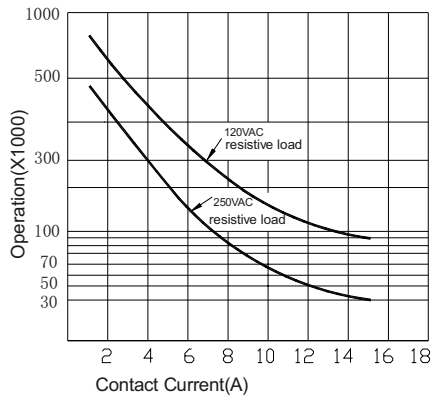
Operation Time



Contact Switching Capacity



Life expectancy



Ambient Temperature vs. Maximum Voltage

