

■ Features

- Subminiature Size: 17.5 x 6.5 x 12.5 mm (lwh)
- Large Capacity: 5A, 250VAC/30VDC
- High Dielectric: 3000VAC, 1 minute, coil/contact
- High Sensitivity: 100mW pull-in power with non-polarized structure
- Sealed Cover: Suitable for immersion cleaning



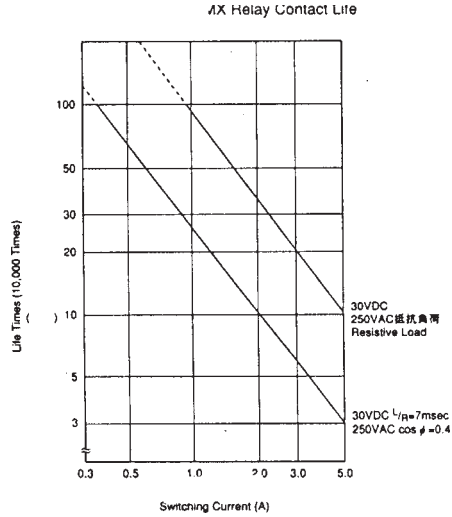
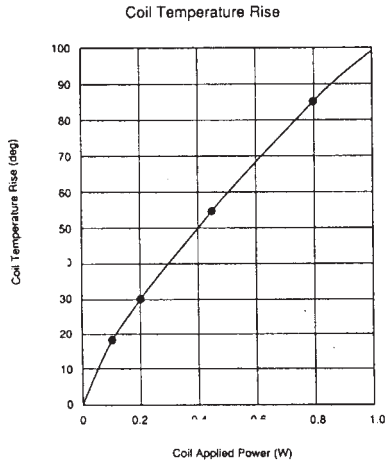
■ Rating Performance

| | |
|--------------------------|---|
| Contact Arrangement: | 1 Form A (1a) |
| Contact Material: | AgCuNi |
| Rated Load: | 250VAC/30VDC 5A (Resistive Load) |
| Contact Resistance: | Max. 50mOhm (at 6VDC 1A, voltage drop method) |
| Switching Current (max): | 5A |
| Carrying Current (max): | 10A at 20 °C within 10 minutes |
| Dielectric Strength: | 3,000VAC for 1 minute (Coil to Contact) 750VAC for 1 minute (between open contacts) |
| Insulation Resistance: | 100mOhm @ 500VDC (min) |
| Operate Time: | 10ms, max. at rated voltage |
| Release Time: | 4ms, max. at rated voltage |
| Shock Resistance: | |
| False Operation | 10G min. (shock wave 11ms) |
| Endurance | 100G min. (shock wave 11ms) |
| Vibration Resistance: | |
| False Operation | 10 to 55Hz (Double amplitude 1.5mm) |
| Endurance | 10 to 55Hz (Double amplitude 1.5mm) |
| Mechanical Life: | 10x10 ⁶ Ops. (Switching Freq. 300 ops/min) |
| Electrical Life: | 0.1x10 ⁶ Operations at rated load (On: 1 sec/Off: 1 sec) |
| Ambient Temperature: | -40 °C to +85° C |
| Weight: | 3 grams, approx. |

■ Coil Rating

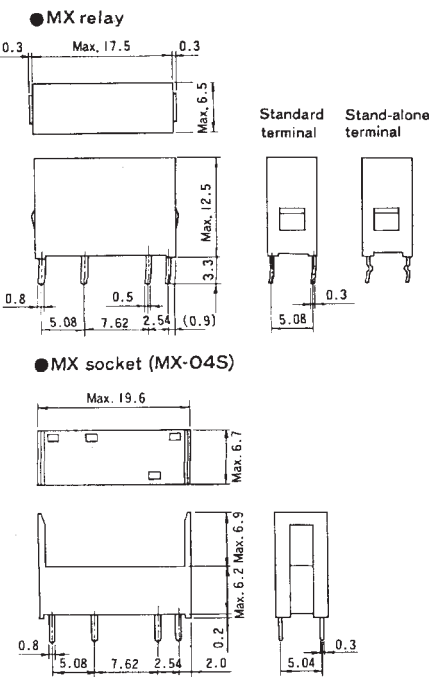
| Part Number | Rated Voltage | Coil Resistance +/- 10% | Pull-in Voltage | Drop-out Voltage | Rated Power |
|-------------|---------------|-------------------------|-----------------|------------------|-------------|
| MX-5(N) | 5VDC | 125 | 3.5V | 0.5V | 200mW |
| MX-6(N) | 6VDC | 180 | 4.2V | 0.6V | |
| MX-9(N) | 9VDC | 405 | 6.3V | 0.9V | |
| MX-10(N) | 10VDC | 500 | 7.0V | 1.0V | |
| MX-12(N) | 12VDC | 720 | 8.4V | 1.2V | |
| MX-24(N) | 24VDC | 2,880 | 16.8V | 2.4V | |

Characteristics

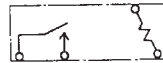


Dimensions, Wiring, Drilling Diagram

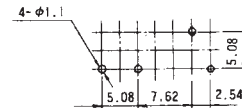
1. External Dimension



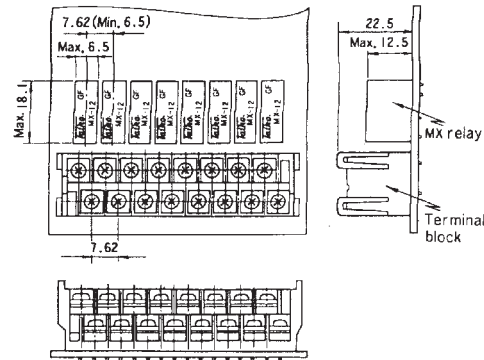
2. Internal Wiring (Bottom View)



3. P. C. Board Drilling Design (Bottom View)



4. Mounting (Example)



How to Order

| | | | | |
|--------------------------|--|---|---|---|
| Model | MX - 12 | G | C | Terminal: Blank = Standard |
| Coil Voltage (DC) | | | | Contacts: Blank = Standard G = Low level loads |
| | 3, 4.5, 5, 6, 9, 10, 12, 18, 21, 24 | | | |