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|--|-----------------|--------------|
|  <p>Relays for advanced technology</p> | ULTRA-MINIATURE | WJ107-RELAYS |
| | PC BOARD TYPE | |
| | POWER RELAY | |



- Ultra-miniature size with universal footprint
- High contact capacity: 12A
- Sealed type available
- Low coil power consumption
- UL/C-UL recognized
- TUV recognized

SPECIFICATIONS

Contact

| | |
|--|--|
| Arrangement | 1A, 1B 1C |
| Contact Material | Silver alloy |
| Contact Resistance (By voltage 6V 1A) | Max.100m• |
| Rating | |
| Nominal switching capacity | 12A 125VAC |
| Resistive load (cos•=1) | 10A 125VAC 10A 28VDC 7A 250VAC |
| Rating | |
| Resistive load (cos•=1) | 12A 125VAC 10A 125VAC 10A 28VDC 7A 250VAC |
| Inductive load (cos•=0.75•0.8) | 3A 125VAC 3A 28VDC |
| Max. Switching voltage | 250VAC 125VDC |
| Max. Switching current | 12A |
| Max. Switching power | 1250VA 280W |
| Expected life(min.ope) | |
| Mechanical (at 180 cpm) | 1×10 ⁷ |
| Electrical (at 20 cpm) | 1×10 ⁵ |

Characterstics

| | |
|---------------------------|--|
| Operate Time | Max.8msec. |
| Release Time | Max.5msec. |
| Operating humidity | 45 to 85% RH |
| Initial breakdown voltage | |
| Between coil & contact | 1500VAC (50/60Hz)for 1 min. |
| Between open contacts | 750VAC (50/60Hz)for 1 min. |
| Insulation Resistance | Min.100M• (500 VDC) |
| Ambient temperature | -40••+85• |
| Temperature rise(Max) | 35deg |
| Shock | Functional Destruction |
| Resistance | Min. 10G Min.100G |
| Vibration | Functional Destruction |
| Resistance | 10 TO 55 Hz at double Amplitude of 1.5mm 10 TO 55 Hz at double Amplitude of 1.5mm |
| Unit weight | Approx.9g |

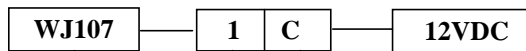
TYPICAL APPLICATION

- 1.Home appliances:conditioner,hearter,etc.
- 2.Auomotive:Power-windows,car antenna,door lock,etc.
- 3.Office machines:PPC,facsimile,etc.
- 4.Vending machines.

Coil

| | |
|-------------------------|-------|
| Nominal operating power | 0.36W |
|-------------------------|-------|

ORDERING INFORMATION



| Type | Number of pole | Contact form | Coil voltage (DC) |
|-------|----------------|---|----------------------------|
| WJ107 | 1:1pole | A: 1 form A B: 1 form B C: 1 form C | 3, 5, 6, 9, 12, 24, 48V |

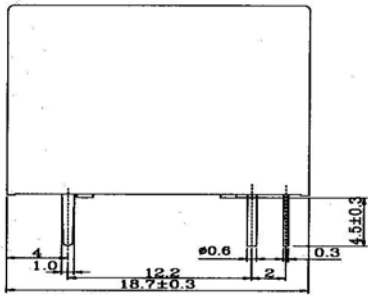
COIL DATA (at 20•)

| Nominal Voltage (VDC) | Pick-up Voltage VDC(Max) | Drop-out Voltage VDC(Min) | Coil Resistance (•)±10% | Nominal operating Power (W) | Max.Allowable Voltage |
|-----------------------|--------------------------|---------------------------|-------------------------|-----------------------------|-------------------------|
| 3 | 2,25 | 0,15 | 25 | 0.36 | 130% of nominal Voltage |
| 5 | 3,75 | 0,25 | 69 | | |
| 6 | 4,50 | 0,30 | 100 | | |
| 9 | 6,75 | 0,45 | 225 | | |
| 12 | 9,00 | 0,60 | 400 | | |
| 24 | 18,00 | 1,20 | 1600 | | |
| 48 | 36,00 | 2,40 | 6400 | | |

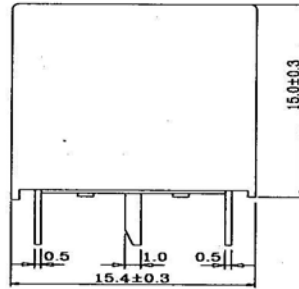
DIMENSIONS

Unit: mm

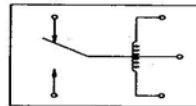
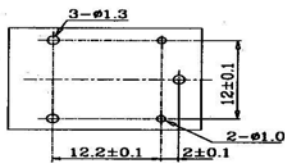
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(BOTTOM VIEW)

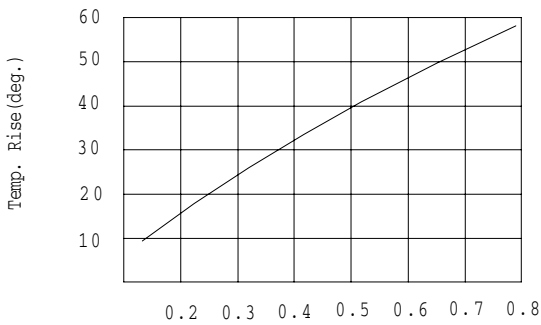


(BOTTOM VIEW)

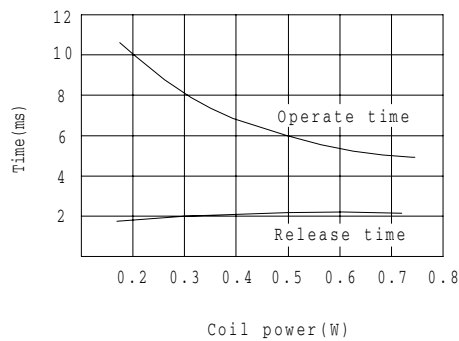


REFERENCE DATA

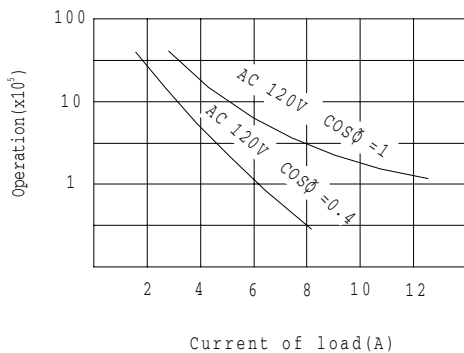
Coil temp. rise



Operate time/Release time



Life Expectancy



Note: The relative changes for the specification will not be advised in the future.