



39×30×17.5

JMX-94F

CQC 03001003499

Features
<ul style="list-style-type: none"> ▪ Magnet latching relay. ▪ High sensitivity & reliability. ▪ Well anti-shock and anti-vibration. ▪ Heavy contact load.

Ordering Information
JMX-94F <u>A</u> <u>Z</u> <u>60</u> <u>DC12V</u> <u>D</u> 1 2 3 4 5 6
1 Part number: JMX-94F 2 Contact arrangement: A:1A; B:1B 3 Enclosure: S: Sealed type; Z: Dust cover 4 Contact current: 40:40A; 60:60A; 80:80A 5 Coil rated voltage(V): DC: 9,12, 24 6 Coil : NIL:Single coil; D: Double coils

Contact Data		
Contact Arrangement	1A (SPSTNO) , 1B (SPSTNC)	
Contact Material	AgCd O	
Contact Rating(resistive)	80A/250VAC 60A/250VAC 40A/250VAC	
Max. Switching Power	20000VA 15000VA 10000VA	
Max. Switching Voltage	300VAC Max. Switching Current:80A	
Contact Resistance & Voltage drop	$\leq 50m\Omega$ (at 1A/24VDC) Item 4.12 of IEC 61810-7 $\leq 100mV$ (at rated load) Item 4.12 of IEC 61810-7	
Operation life	Electrical (Rated load)	10 ⁴ Item 4.30 of IEC 61810-7
	Mechanical (No load)	10 ⁶ Item 4.31 of IEC 61810-7

Coil Parameter							
Dash numbers	Coil rated voltage VDC	Coil resistance $\Omega \pm 10\%$	Switching voltage VDC (50%-70% of rated voltage)	Pulse magnitude ms	Coil power consumption W	Operate Time ms	Reset Time ms
009-1000	9	81	4.5-6.3	≥ 60	1	≤ 20	≤ 20
012-1000	12	144	6.0-8.4				
024-1000	24	576	12.0-16.8				
009-2000	9	2×40.5	4.5-6.3	≥ 60	2	≤ 20	≤ 20
012-2000	12	2×72	6.0-8.4				
024-2000	24	2×288	12.0-16.8				

CAUTION: 1.When latching relays are installed in equipment, the latch and reset coil should not be pulsed simultaneously. coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position .
 2.Switching voltage is for test purpose only and are no to be used as design criteria.

Operation condition		
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between contacts	50Hz 1500V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 4000V	Item 6 of IEC 60255-5
Creepage distance	8.4mm	Addenda B of IEC 60255-5
Shock resistance	Functional 100m/s ² ;Survival:1000 m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10-55Hz Double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235 $^{\circ}C \pm 2^{\circ}C$ 3 $\pm 0.5s$	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-25~70 $^{\circ}C$	
Relative Humidity	85% (at 40 $^{\circ}C$)	IEC 68-2-3 Test Ca
Mass	33g	

Safety approvals	
Safety approval	CQC
Load	80A/220VAC

Dimensions

mm /inch

Dimensions: Max. 0.535, 0.217, 1.202, 2.5, 0.098, 0.6 (1.0), 0.024(0.009), 11(10), 0.433(0.394), 0.824, 0.335, 0.334, 0.2687, 0.138, 0.689max., 17.5, 0.433, 1.1, 0.089x0.04(0.6x0.014)x0.024, 3.5, 0.889, 0.089x0.04(0.6x0.014)x0.024.

Mounting (Bottom view): (assistance mounting terminal) 19.08, 0.751, 25.4, 1.000, 3- $\phi 1.2$, $\phi 0.047$, 2.8, 0.110, 2.51, 0.098, 5.08, 0.200, 21.59, 0.850, 0.098, 0.200.

Wiring diagram: Shows Set and Reset coils with plus (+) signs.

NOTES: 1).Dimensions are in millimeters.
 2).Inch equivalents are given for general information only.
 3).Relays shall have plus(+) signs placed on the circuit diagram as shown.

