

POWER RELAY

HJQ-15FT

- High power&low cost
- 40A switching capability
- Less than 1W coil power
- Open sealed type available
- Class B/F available
- Conform to RoHS,ELV directive



■ CONTACT DATA

Contact Arrangement	1H/1D/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS Φ=1)
Contact Ratings	NC:30A 277VAC, NO:40A277VAC
Min. Contact Load	500mA 5VDC
Max. Switching Voltage	277VAC/30VDC
Max. Switching Current	40A
Max. Switching Power	7200VA/560W
Contact Resistance	≤100mΩ (6VDC 1A)
Electrical Endurance	NO: 5×10 ⁴ OPS(at 6 OPS/min)
Mechanical Endurance	1×10 ⁷ OPS(at 300 OPS/min)

■ CHARACTERISTICS

Insulation Resistance		1000MΩ Min. at 500VDC
Dielectric Strength	Between Open Contacts	1500VAC (50/60Hz 1 min)
	Between Contacts and Coil	1500VAC/T: 2500VAC/NT: 4000VAC (50/60Hz 1 min)
Operate Time		≤15ms
Release Time		≤10ms
Ambient Temperature		-40℃ ~ +85℃
Shock Resistance		Functional : 10G
		Destructive : 100G
Vibration Resistance		10~55Hz, 1.5mm DA
Humidity		5~85%
Unit Weight		Approx. 36g

■ COIL DATA (at 23℃)

Rated Voltage (VDC)	5	6	9	12	18	24	48	110	0.9W
Coil Resistance(Ω ±10%)	27.8	40	90	160	360	640	2560	13444	
Rated Current(mA)	180	150	100	75	50	37.5	18.75	8.2	
Max Operate Voltage (VDC)	3.75	4.5	6.75	9	13.5	18	36	82.5	
Min Release Voltage(VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	11	
Max. Voltage	6.5	7.8	11.7	15.6	23.4	31.2	62.4	143	

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

■ SAFETY APPROVED RATINGS

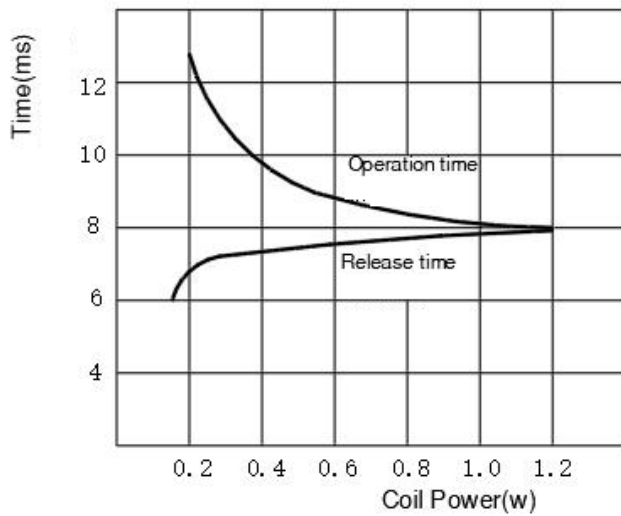
Type	Coil Voltage	Safety Approval	Contact Ratings
HJQ-15FT	5~48VDC	CQC	NO: 40A 277VAC NC: 30A 277VAC
		UL/cUL	NO: 40A 277VAC NC: 30A 277VAC
		TUV	NO: 40A 277VAC NC: 30A 277VAC

■ ORDERING INFORMATION

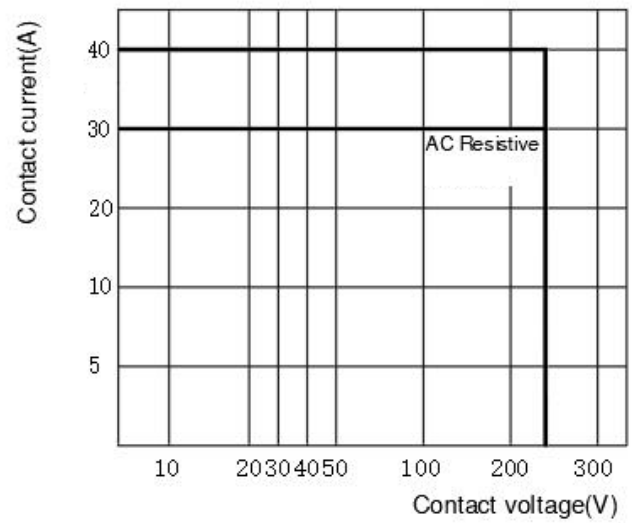
	HJQ-15FT	-S	-H	/N	/12VDC	/XX
Type						
Construction	S: Plastic sealed or flux proofed , K: Open Type, SV:Vent hole					
Contact Arrangement	H: 1 Form A, Z: 1 Form C, D: 1 Form B					
Version	Nil:Standard Type1500VAC(Have pin 3) , N:1500VAC(No pin 3) , T:2500VAC(Have pin 3), NT:4000VAC(No pin 3); TBF-1: CLASS F(155℃)					
Coil Voltage	05, 06, 09, 12, 18, 24,48,110VDC					
Special Code	XX: Customer Special Requirement, Nil: Standard Type, IT: Compliant with IEC 60335-1 (GWT)					

■ CHARACTERISTIC CURVES 性能曲线图

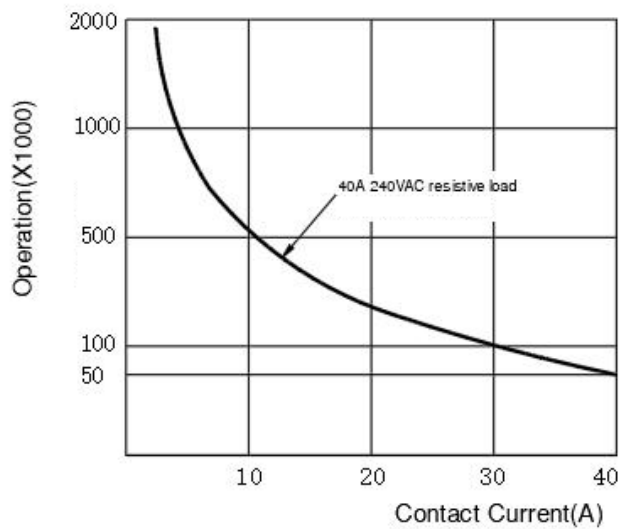
Timing



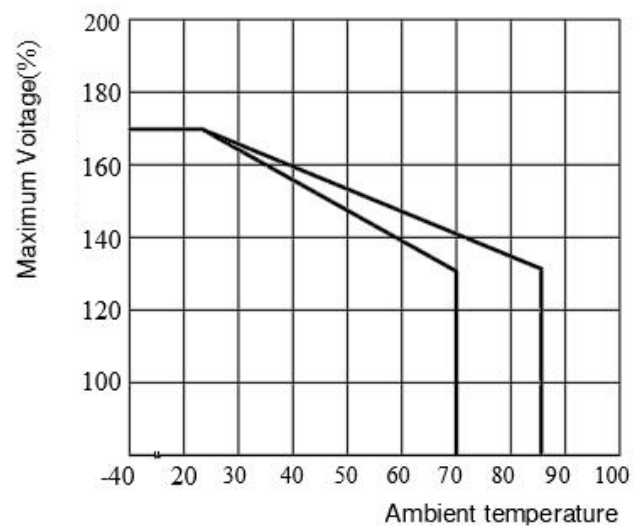
Contact switching capacity



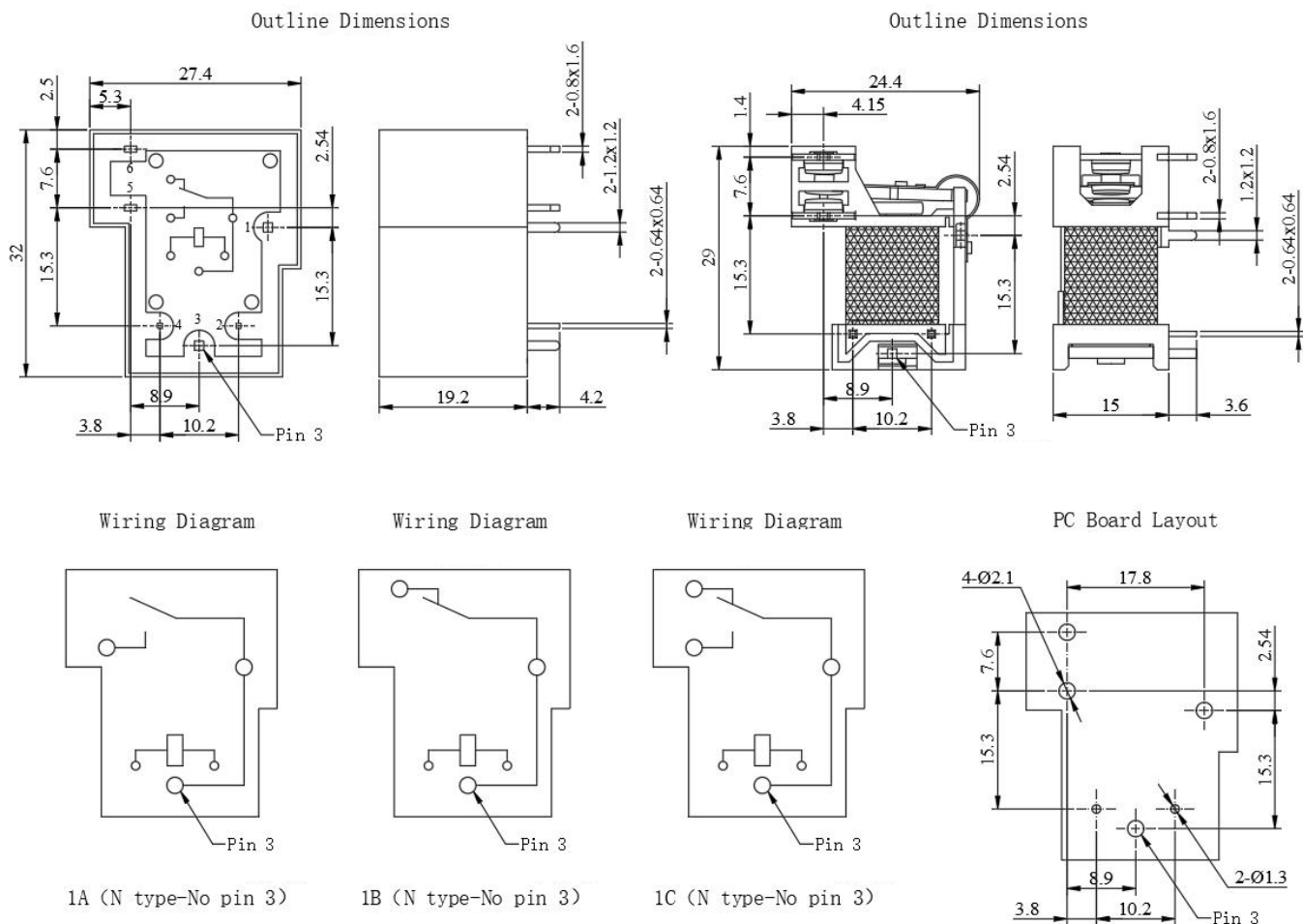
Life expectancy



Ambient Temperature vs. Maximum Voltage



■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



Remark:

- 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

Disclaimer:

The specification is for reference only. Specification subject to change without notice.