HJR3FF-12V

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

08002028071

40005471

E173485

R50116163

■ORDERING CODE

HJR3FF （S — H F （TBF-1）） 12VDC

1 2 3 4 5 6 7

1. Relay Model
2. S
3. H: Form A
   Z: Form C
4. Temperature Range
   F:CQC/ UL/TUV 105℃
   VDE 85℃
   Nil: CQC/UL/TUV 85℃
   VDE 70℃
5. Insulated Level
   TBF-1: Class F
   Nil:
6. Coil Nominal Voltage
   3,5,6,9,12,18,24,48VDC
7. IT: GWIT 750℃ (at≤ 2 s)

■COIL DATA（at 20℃）

Nominal Voltage(VDC)	3	5	6	9	12	18	24	48	
Coil Resistance （Ω ±10%)	25	69	100	225	400	900	1600	6400	
Rated Current (mA)	120	71.4	60	40	30	20	15	7.5	0.36W
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	0.9	1.2	2.4	
Max ApplicableVoltage	70℃ 130%，23℃ 170%								

■CONTACT DATA

Contact Form	1H/1Z	
Contact Material	Silver Alloy	
Load	Resistive load(COSΦ=1)	
Contact Rating	1H: 10A 240VAC 12A 120VAC 15A 125VAC	1Z: 7A 240VAC 10A 120VAC
Minimum load	100mA 5VDC	
Max Switching Voltage	250VAC/30VDC	
Max Switching Current	15A	
Max Switching Power	2770VA/240W	
Contact Resistance	100mΩMax at 6VDC 1A	
Life Expectancy	Electrical: 100, 000 Operations(at30Operations/minute)	
	Mechanical: 10, 000, 000 Operations(at300Operations/minute)	

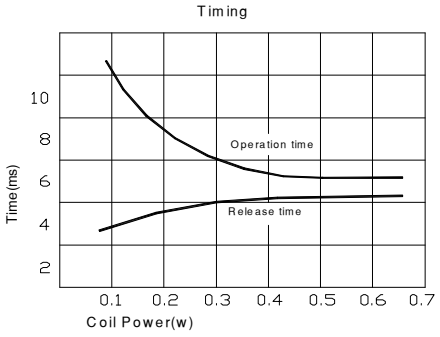
■CHARACTERISTICS DATA

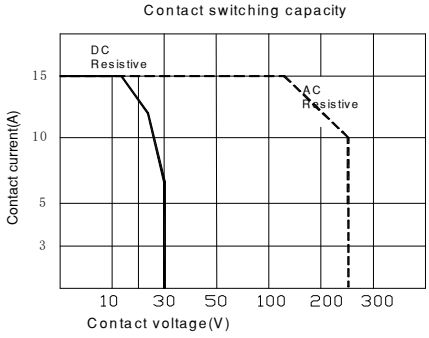
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	750VAC(50/60Hz for one minute)
Between Contacts and coil	1500VAC(50/60Hz for one minute)
Operate Time	10ms
Release Time	5ms
Temperature Range	-40℃to+85℃(or 105℃)
Shock Resistance	Operating Extremes: 10G
	Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx 10g
Safety Standard	UL cUL TÜV CQC VDE

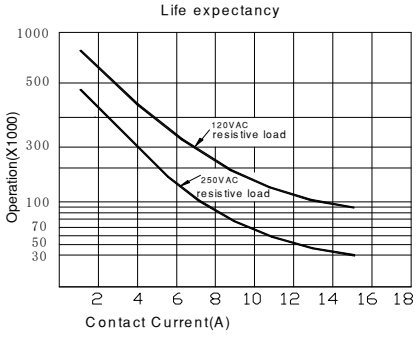
■APPROVED STANDARDS

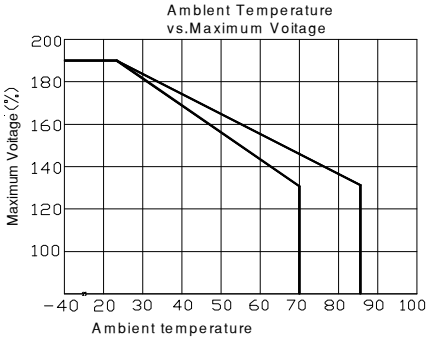
Model	Coiling rating	Safety Standard	Contact rating
HJR-3FF	3 to 48VDC	TÜV	1H: 15A 125VAC 10A 240VAC
			1Z: 15A 125VAC 7A 240VAC
		UL/cUL	1H: 10A 240VAC 12A 120VAC 1HF: 15A 125VAC
			1Z: 7A 240VAC 10A 120VAC 1/8HP(FLA 3.8A) 125VAC 1/8HP(FLA 1.6A) 277VAC
		VDE	1H: 7A 250VAC/30VDC
			1Z: 7A 250VAC/30VDC
			H F:10A 250VAC;10A 30VDC
			Z F:10A 250VAC;10A 30VDC
		CQC	7A 240VAC 10A 240VAC

■ENGINEERING DATA

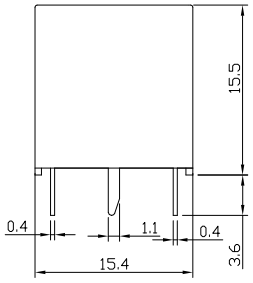


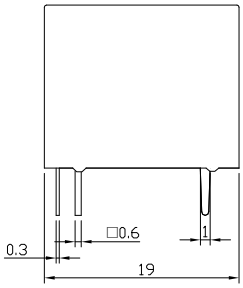


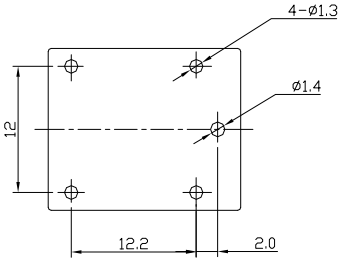


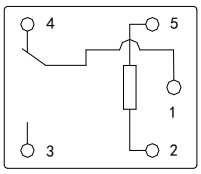


■OVERALL AND MOUNTING DIMENSIONS

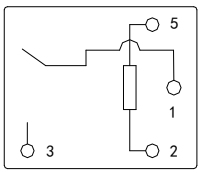








Form C



Form A