


**PCB**
**TRKM (HJR-78F)**

- 20A switching capability
- Small size auto relay
- Conform to RoHS,ELV directive



 E173485

**ORDERING CODE**

TRKM	D	S	Z	/	12VDC
1	2	3	4		5
1. Relay Model	TRKM		4. Z: Form C	B: Form B	
	or HJR-78F		H: Form A		
2. Coil Power	D=0.8W, L=0.6W		5. CoilNominalVoltage		
3. S: Sealed			6,9,12,24VDC		

**COIL DATA (at 20°C)**

Nominal Voltage (VDC)	6	9	12	24	0.6W
Coil Resistance ( $\Omega \pm 10\%$ )	60	135	240	960	
Rated Current (mA)	100	66.7	50	25	
Max Operate Voltage (VDC)	3.9	5.85	7.8	15.6	
Min Release Voltage (VDC)	0.48	0.72	0.96	1.92	
Coil Resistance ( $\Omega \pm 10\%$ )	45	100	180	720	0.8W
Rated Current (mA)	133.3	88.9	66.7	33.3	
Max Operate Voltage (VDC)	3.9	5.85	7.8	15.6	
Min Release Voltage (VDC)	0.48	0.72	0.96	1.92	
Max ApplicableVoltage	70°C 130%, 23°C 170%				

**CONTACT DATA**

Contact Form	1H/1Z/1B
Contact Material	Silver Alloy
Load	Resistive load(COS $\Phi$ =1)
Contact Ratings	NO: 20A 14VDC NC: 12A 14VDC 1Z: 7A 120VAC
Minimum load	100mA 5VDC
Max Switching Voltage	250VAC/16VDC
Max Switching Current	25A
Max Switching Power	840VA/280W
Contact Resistance	100m $\Omega$ Max at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30Operations/minute)
	Mechanical : 10,000,000 Operations(at300Operations/minute)

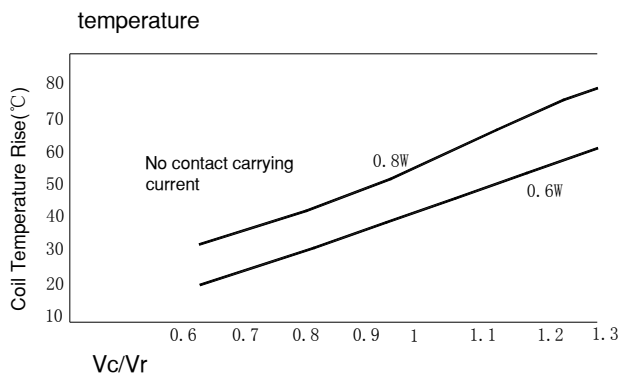
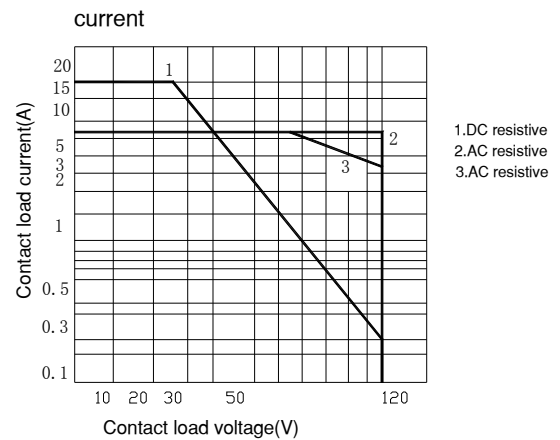
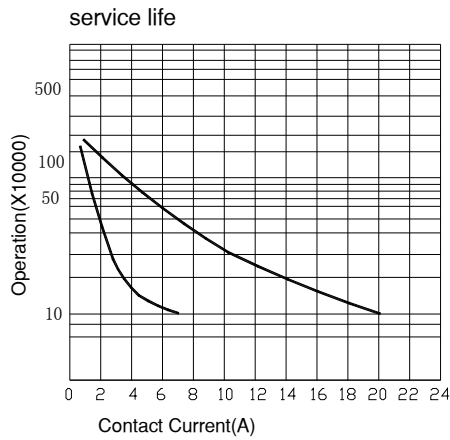
## ■ CHARACTERISTICS DATA

Insulation Resistance	100M $\Omega$ Min at 500VDC
Dielectric Strength Between Open Contacts	500VAC(for one minute)
Between Contacts and coil	500VAC(for one minute)
Operate Time	10ms
Release Time	5ms
Temperature Range	-40°C to +85°C
Shock Resistance	Operating Extremes : 10G
	Damage Limits : 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000operations/hr
	Electrical: 1,800operations/hr
Humidity	35-85%
Weight	Approx 6g
Safety Standard	UL cUL

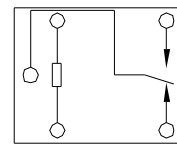
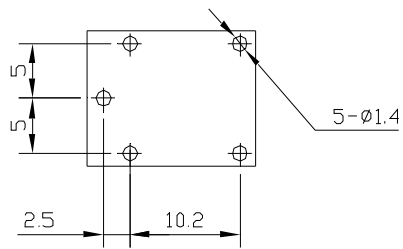
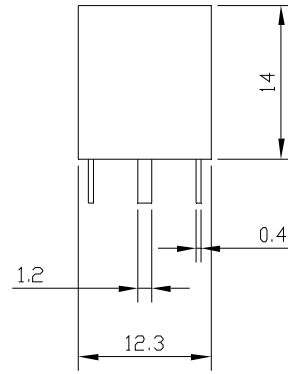
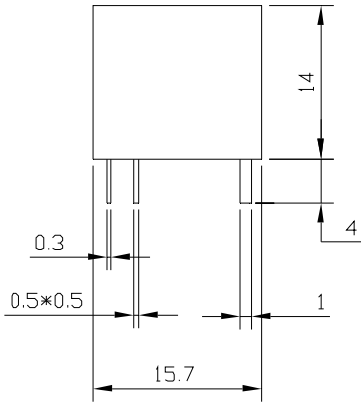
## ■ APPROVED STANDARDS

Model	Coiling rating	Safety Standard	Contact rating
HJR-78F	6 to 24VDC	UL/cUL	NO/NC: 20A/12A 14VDC
			7A 120VAC

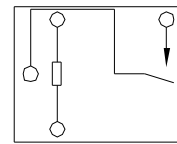
## ■ ENGINEERING DATA



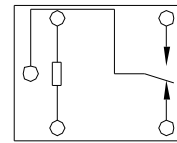
**OVERALL AND MOUNTING DIMENSIONS**



Form C



Form A



Form B