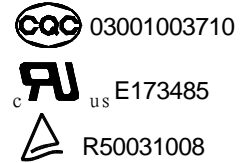


PCB
HJR-21FF

- 12A switching capability
- SPST-NO configuration
- Small footprint
- Sealed version available
- Class B/F available
- Conform to RoHS,ELV directive

20.3×16.8×20.3


ORDERING CODE

<u>HJR-21FF</u>	—	<u>12VDC</u>	—	<u>S</u>	—	<u>H</u>	—	<u>(TBF-1)</u>
1		2		3		4		5
1. Relay Model						4.		5. Insulated Level
2. Coil Nominal Voltage						H: Form A		TBF-1: Class F
						Z: Form C		Nil: Standard Type
3. S: Sealed								

COIL DATA

Nominal Voltage (VDC)	3	5	6	9	12	24	48	0.36W
Coil Resistance ($\Omega \pm 10\%$)	25	69	100	225	400	1600	6400	
Rated Current (mA)	120	71.4	60	40	30	15	7.5	
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Coil Resistance ($\Omega \pm 10\%$)	20	56	80	180	320	1280	5120	0.45W
Rated Current (mA)	150	90	75	50	37.5	18.7	9	
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Max Applicable Voltage	70	130%, 23			170%			

CONTACT DATA

Contact Form	1H/1Z						
Contact Material	Silver Alloy						
Load	Resistive load(COS $\Phi=1$)						
Contact Ratings	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1H:12A 240VAC</td> <td style="width: 50%;">1Z:10A 240VAC</td> </tr> <tr> <td>15A 125VAC(TUV)</td> <td>12A 120VAC</td> </tr> <tr> <td>15A 120VAC</td> <td>15A 125VAC(TVU)</td> </tr> </table>	1H:12A 240VAC	1Z:10A 240VAC	15A 125VAC(TUV)	12A 120VAC	15A 120VAC	15A 125VAC(TVU)
1H:12A 240VAC	1Z:10A 240VAC						
15A 125VAC(TUV)	12A 120VAC						
15A 120VAC	15A 125VAC(TVU)						
Minimum load	10mA 5VDC						
Max Switching Voltage	250VAC/30VDC						
Max Switching Current	15A						
Max Switching Power	2770VA/240W						
Contact Resistance	100m Ω Max at 6VDC 1A						
Life Expectancy	Electrical : 100,000 Operations(at30Operations/minute)						
	Mechanical : 10,000,000 Operations(at300Operations/minute)						

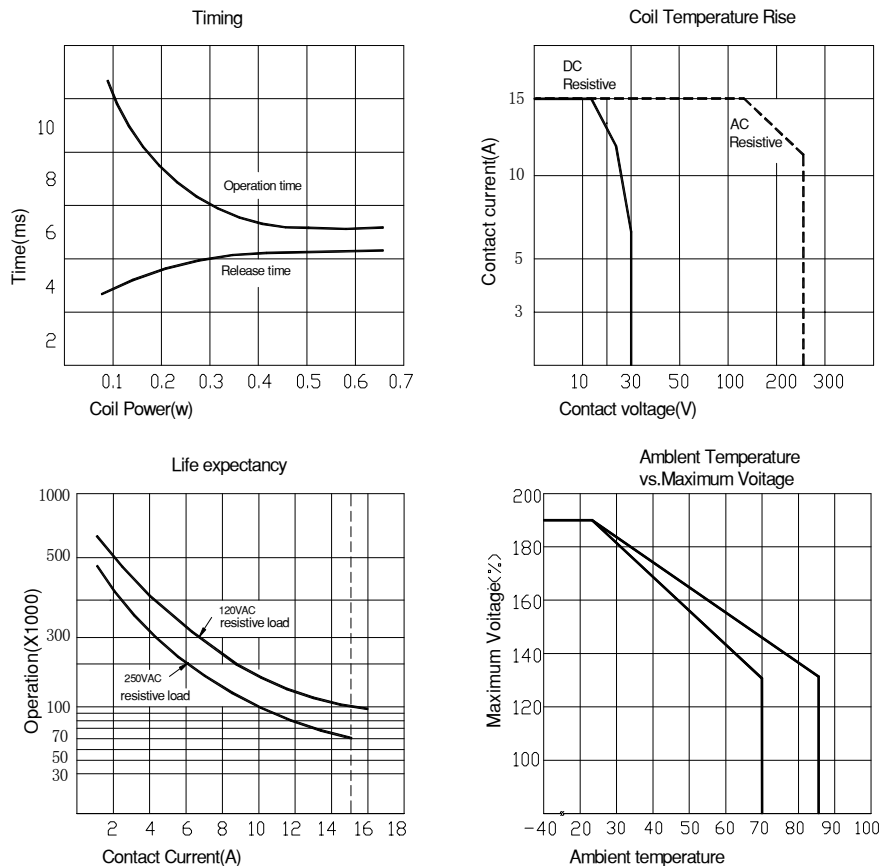
■ CHARACTERISTICS DATA

Insulation Resistance	100M Ω Min at 500VDC
Dielectric Strength Between Open Contacts	750VAC(for one minute)
Between Contacts and coil	1500VAC(for one minute)
Operate Time	10ms
Release Time	5ms
Temperature Range	-40°Cto+70°C (Class F: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	40-85%
Weight	Approx 13g
Safety Standard	UL cUL TÜV CQC

■ APPROVED STANDARDS

Model	Coiling rating	Safety Standard	Contact rating
HJR-21FF	3 to 48VDC	UL/cUL	H: 12A 240VAC 15A 120VAC TV-5 120VAC
			Z: 10A 240VAC 12A 120VAC TV-5 120VAC
			H: 15A 125VAC 12A 240VAC
		TÜV	Z: 15A 125VAC 10A 240VAC
			10A: 240VAC
		CQC	H: 12A 240VAC

■ ENGINEERING DATA



■ OVERALL AND MOUNTING DIMENSIONS

