HJQ-13F-2C Power Relay

c UL us E173485

R50116173

■ Features

- 10A transfer contacts
- Different dust-proof cover, different layout
- Conform to RoHS,ELV directive

■ Ordering Code

HJQ-13F	—	2Z	—	F	(P)	/	12VDC
1		2		3	4		5

1. Relay Model 2. Contact Form: 2Z: Form 2C 3. F: Flange Type, Nil: Standard 4. Mounting Type: P: PCB Type, Nil: B Type

5. Coil Nominal Voltage: 5, 6, 12, 24, 48, 110, 120VDC; 6, 12, 24, 48, 110, 220/240VAC

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	5	6	12	24	48	110/120	220/240	0.9W
Coil Resistance(Ω)	28	40	160	640	2560	11000		
Rated Current(mA)	178.5	150	75	37.5	18.75	10		
Max Operate Voltage(VDC)	3.75	4.5	9	18	36	82.5		
Min Release Voltage(VDC)	0.5	0.6	1.2	2.4	4.8	11		
Nominal Voltage(VAC)		6	12	24	48	110/120	220/240	1.2VA
Coil Resistance(Ω)		11.5	46	180	735	4550	14400	
Max Operate Voltage(VAC)		4.8	9.6	19.2	38.4	96	176	
Min Release Voltage(VAC)		1.2	2.4	4.8	9.6	22	44	
Max Applicable Voltage	130% of nominal voltage at 70°C, 170% of nominal voltage at 23°C							

Note: Coil Resistance Tolerance of ±10% for 5-24VDC/6-48VAC, Coil Resistance Tolerance of ±15% for 48-110VDC/110-240VAC.
AC Coil Rated Voltage Frequency: 50Hz~60Hz

■ Contact Data

Contact Form	2Z
Contact Material	Silver Alloy
Load	Resistive Load(COSΦ=1)
Contact Ratings	10A 250VAC/30VDC
Minimum Load	100mA 5VDC
Max Switching Voltage	250VAC/30VDC
Max Switching Current	15A
Max Switching Power	2500VA/300W
Contact Resistance	100mΩMax at 6VDC 1A
Life Expectancy	Electrical: 100,000 Operations (at 30 Operations/minute)
	Mechanical: 10,000,000 Operations (at 300 Operations/minute)

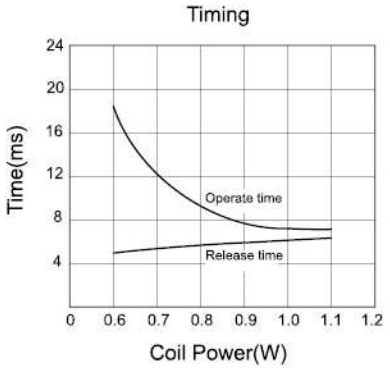
■ Approved Standards

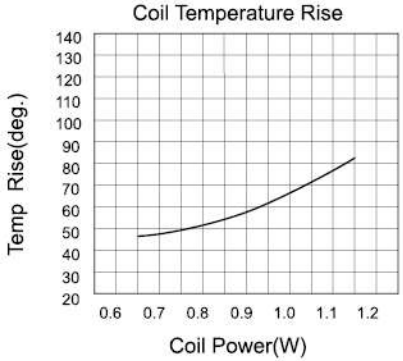
Model	Coil Rating	Safety Standard	Contact Rating
HJQ-13F-2C	5 to 110VDC	TÜV	10A 240VAC 10A 30VDC
	6 to 240VAC		
	5 to 110VDC	UL/cUL	10A 250VAC 10A 30VDC 15A 125VAC
	6 to 240VAC		

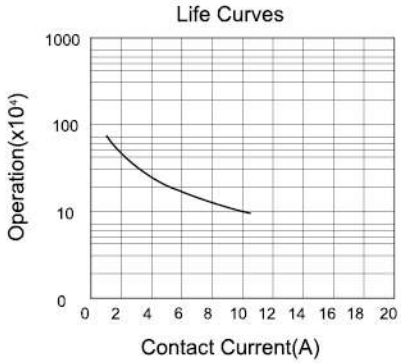
■ Characteristics Data

Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	1000VAC (for one minute)
Between Contacts and Coil	1500VAC (for one minute)
Operate Time	25ms
Release Time	25ms
Temperature Range	-40˚C to +70˚C
Shock Resistance	Operating Extremes: 20G 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: 35g
Safety Standard	UL cUL TÜV CQC

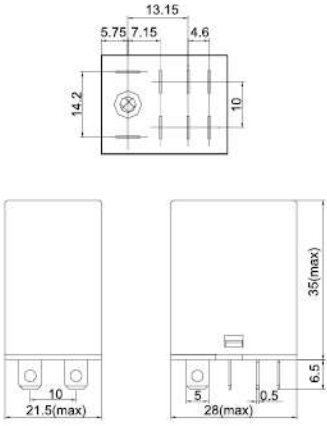
■ Engineering Data



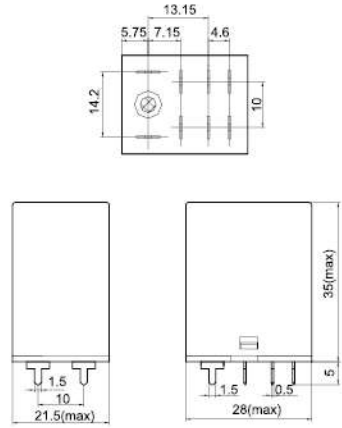




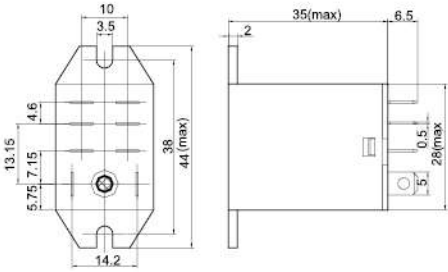
■ Overall and Mounting Dimensions



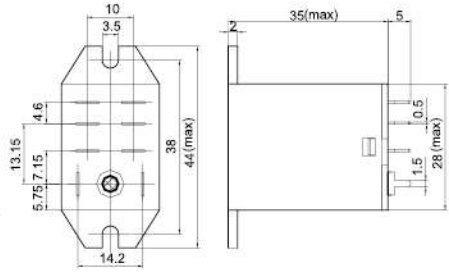
B Type



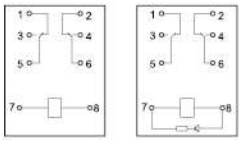
P Type



B Type (Flanger Type)



P Type (Flanger Type)



Wiring Diagram

Remark:

1). In case the tolerance is not shown in outline dimension, the tolerance should be ±0.2mm for outline dimension≤1mm; ±0.3mm for outline dimension: 1~5mm and ±0.4mm for outline dimension>5mm.

2). The tolerance without indication is always ±0.1mm for the dimension of PCB layout.

Disclaimer:

These specifications are just for customers' reference and subject to change without notice.