




**HJQ-15F-1**

- QC&PC terminals
- High dielectric strength 3,000VAC
- Class B/F available
- Conform to RoHS,ELV directive



 09002030497

 E173485

 R50116174

**ORDERING CODE**

<u>HJQ-15F-1</u>	—	<u>S</u>	—	<u>Z</u>	—	<u>(TBF-1)</u>	—	<u>T</u>	—	<u>/ 12VDC</u>
1		2		3		4		5		6
1. Relay Model						4. Insulated Level				
2. S: Sealed						T B F - 1 : C l a s s F				
SV: Vent hole						Nil:				
K: Open Type						5. T: 2500VAC				
3. H: Form A						Nil: 1500VAC				
Z: Form C										
D: Form B						6. Coil Nominal Voltage				
						5,6,9,12,18,24,48,110VDC				

**COIL DATA (at 20°C)**

Nominal Voltage (VDC)	5	6	9	12	24	48	0.93W
Coil Resistance ( $\Omega \pm 10\%$ )	27	39	87	155	620	2480	
Rated Current (mA)	186	155	103	77.5	39	19	
Max Operate Voltage (VDC)	3.75	4.5	6.75	9	18	36	
Min Release Voltage (VDC)	0.5	0.6	0.9	1.2	2.4	4.8	
Max Applicable Voltage	70°C 130%, 23°C 170%						

**CONTACT DATA**

Contact Form	1H/1D/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS $\Phi$ =1)
Contact Ratings	1H: 25A(30A) 240VAC/20A 28VDC 1D: 15A 240VAC/10A 28VDC 1Z: 20A/10A 240VAC/28VDC
Minimum load	500mA 5VDC
Max Switching Voltage	250VAC/30VDC
Max Switching Current	30A
Max Switching Power	7200VA/560W
Contact Resistance	100m $\Omega$ Max at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30Operations/minute)
	Mechanical : 10,000,000 Operations(at300Operations/minute)

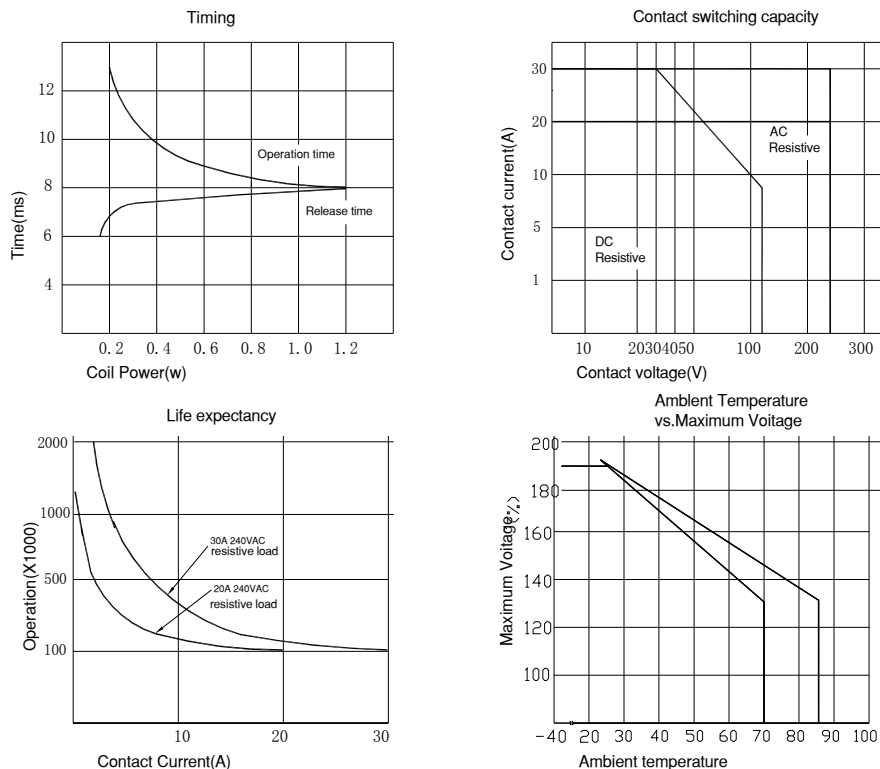
## ■ CHARACTERISTICS DATA

Insulation Resistance	100MΩ Min at 500VDC
Dielectric Strength Between Open Contacts	1500VAC(for one minute)
Between Contacts and coil	1500VAC/2500VAC(for one minute)
Operate Time	15ms
Release Time	10ms
Temperature Range	-40°C to +70°C (Class F: 85°C)
Shock Resistance	Operating Extremes : 10G
	Damage Limits : 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000 operations/hr
	Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx 36g
Safety Standard	UL cUL CQC TÜV

## ■ APPROVED STANDARDS

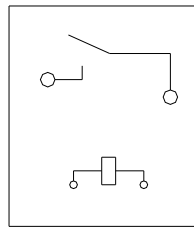
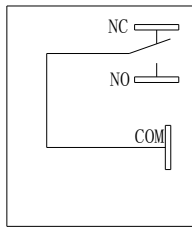
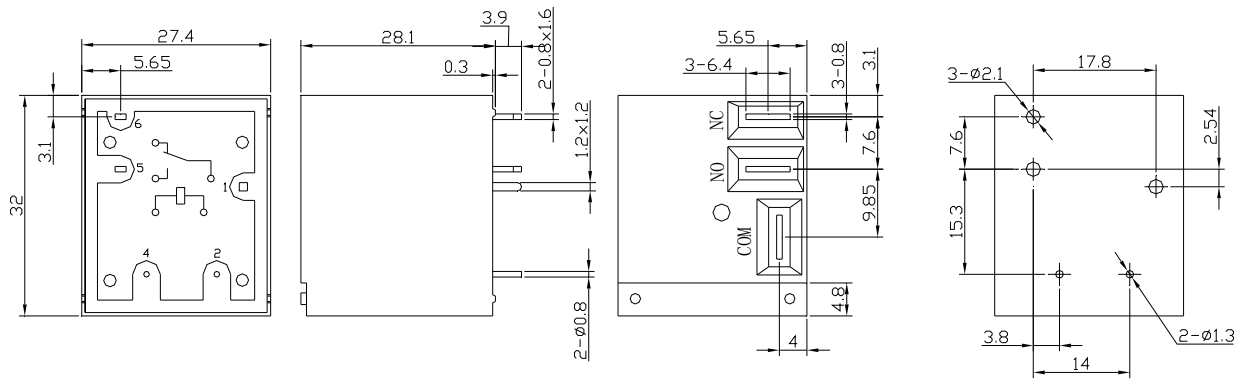
Model	Coiling rating	Safety Standard	Contact rating
HJQ-15F-1	3 to 110VDC	TÜV	H: 30A 240VAC 25A 28VDC
			D: 15A 240VAC 10A 28VDC
			Z(NO): 20A 240VAC /28VDC Z(NC): 10A 240VAC/28VDC
	5 to 48VDC	UL/cUL	NO: 25A 240VAC/28VDC NC: 15A 240VAC/28VDC
			NO: 30A 240VAC NC: 20A 240VAC
			NO: TV-5(5A 120VAC) NO: 1HP 125VAC 2HP 277VAC NC: 1/4HP 125VAC 1/2HP 277VAC
		CQC	NC: 20A 240VAC NO: 30A 240VAC

## ■ ENGINEERING DATA

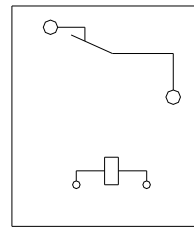


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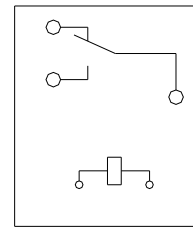
## ■ OVERALL AND MOUNTING DIMENSIONS



1A



1B



1C