

HF62F

MINIATURE HIGH POWER RELAY


File No.:E133481


File No.:R50147086


File No.:CQC09002028470



Features

- 20A switching capability
- 5kV dielectric strength (between coil and contacts)
- 10kV impulse withstand voltage (between coil and contacts)
- creepage distance: 8mm
- PCB & QC layouts available
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.6 x 24.2) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	50mΩ max.(at 1A 6VDC)
Contact material	AgSnO ₂
Contact rating (Res. load)	16A 250VAC
	16A 30VDC
Max. switching voltage	277VAC / 30VDC
Max. switching current	20A
Max. switching power	4000VAC / 480W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS

CHARACTERISTICS		
Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)		20ms max.
Release time (at nomi. volt.)		10ms max.
Humidity		5% to 85% RH
Ambient temperature	Class B	-40°C to 70°C
	Class F	-40°C to 85°C
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Termination		T type: PCB D type, Standard: PCB & QC
Unit weight		Approx.15g
Construction		Flux proofed

- Notes: 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.
3) UL insulation system: Class F, Class B.

COIL	
Coil power	Approx. 540mW

COIL DATA					at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω	
5	4.0	0.5	6.50	47 x (1±10%)	
6	4.8	0.6	7.80	68 x (1±10%)	
9	7.2	0.9	11.7	155 x (1±10%)	
12	9.6	1.2	15.6	270 x (1±10%)	
18	14.4	1.8	23.4	620 x (1±10%)	
24	19.2	2.4	31.2	1100 x (1±10%)	
48	38.4	4.8	62.4	4400 x (1±10%)	

SAFETY APPROVAL RATINGS	
UL/CUL	16A 250VAC
	16A 30VDC
	20A 125VAC
TÜV	16A 250VAC COSØ =1
	16A 30VDC COSØ =1

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

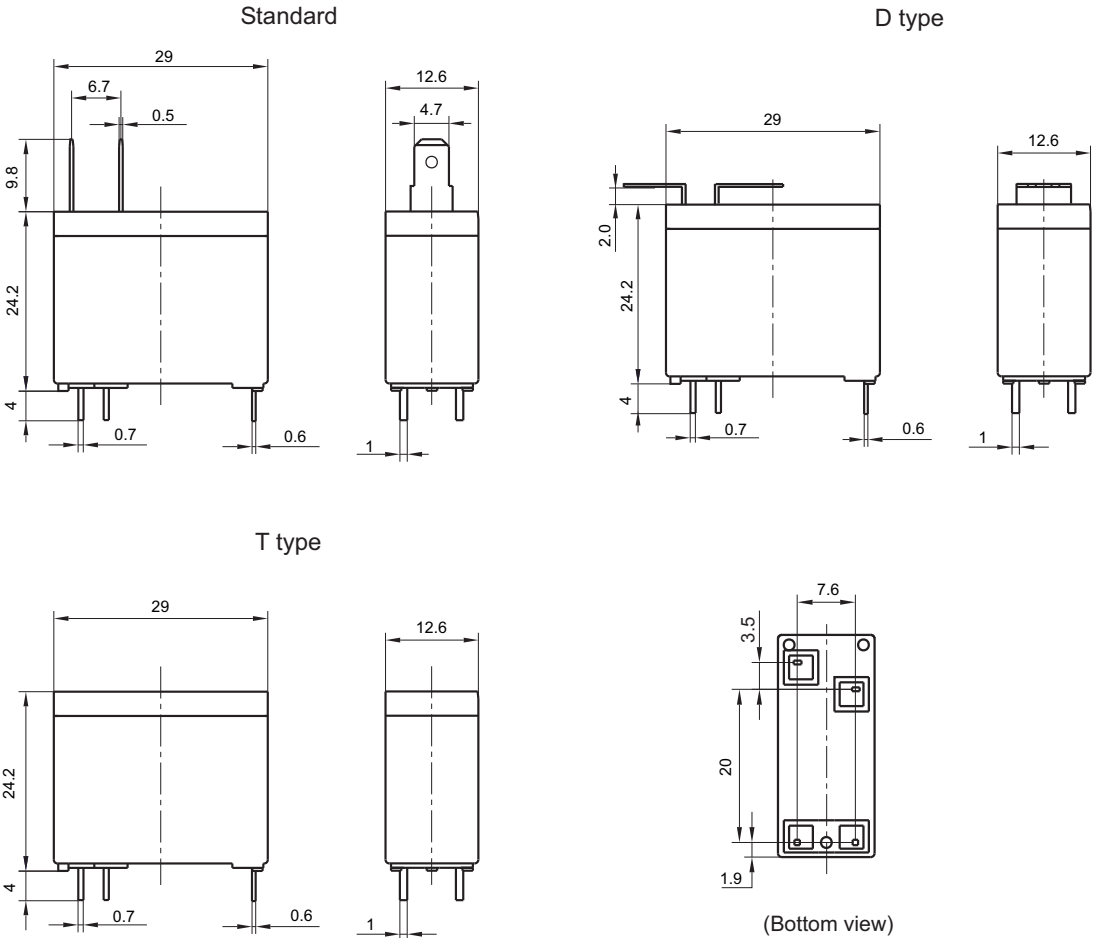
ORDERING INFORMATION

		HF62F /		012	-1H	T	F	(XXX)
Type								
Coil voltage		5, 6, 9, 12, 18, 24, 48VDC						
Contact arrangement		1H: 1 Form A						
Termination		T: PCB		D: PCB & Bended QC		Nil: PCB & QC		
Insulation Standard		F: Class F		Nil: Class B				
Customer special code								

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

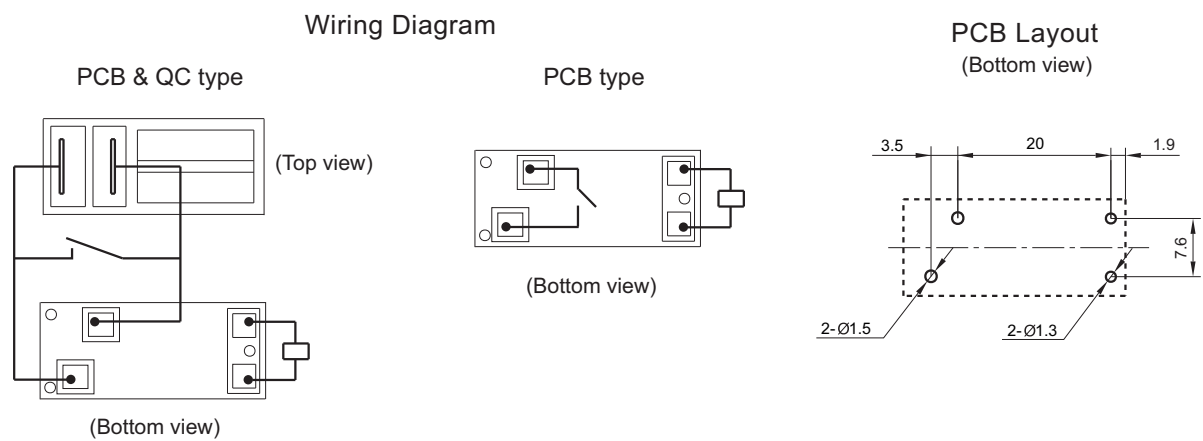
Unit: mm

Outline Dimensions



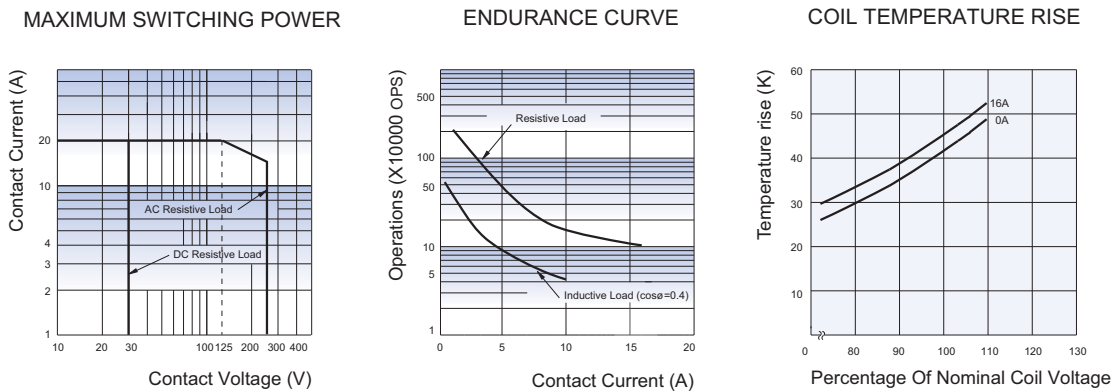
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES



Disclaimer
This datasheet is for the customers' reference. All the specifications are subject to change without notice.
We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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