HF36F

SUBMINIATURE INTERMEDIATE POWER RELAY





File No.:R50156252



Electrical endurance

File No.:CQC09002034525



Features

- 10A switching capability
- TV-5 125VAC approved by UL standard (only for 1 Form A)
- Plastic sealed and flux proofed types available
- 1 Form A and 1 Form C configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (23.8 x 9.5 x 24.5) mm

CONTACT DATA 1A,1C Contact arrangement Contact resistance 100mΩ max.(at 1A 6VDC) AgSnO₂, AgCdO Contact material 10A 250VAC Contact rating 10A 30VDC TV-5 125VAC 250VAC / 30VDC Max. switching voltage Max. switching current 10A Max. switching power 2500VA / 300W Mechanical endurance 1 x 10⁷ ops

CHARACTERISTICS			
Insulation resistance			1000MΩ (at 500VDC)
Dielectric strength	Ве	etween coil & contacts	NO: 4000VAC 1min NC: 3000VAC 1min
	Between open contacts		1000VAC 1min
Operate time (at nomi. volt.)			15ms max.
Release time (at nomi. volt.)			5ms max.
Humidity			5% to 85% RH
Ambient temperature			-40°C to 70°C
Shock resistance		Functional	196m/s ²
	•	Destructive	980m/s ²
Vibration resistance			10Hz to 55Hz 1.5mm DA
Termination			PCB
Unit weight			Approx.12g
Construction			Plastic sealed, Flux proofed
Notes: 1) The data shows above are initial values			

- 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 A

COIL	
Cailmannan	Standard: Approx. 530mW;
Coil power	Sensitive: Approx. 250mW

COIL DATA at 23°C

Stanuaru	type
Nominal	Pic

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.25	6.5	47 x (1±10%)
6	4.50	0.30	7.8	68 x (1±10%)
9	6.75	0.45	11.7	155 x (1±10%)
12	9.00	0.60	15.6	270 x (1±10%)
18	13.5	0.90	23.4	620 x (1±10%)
24	18.0	1.20	31.2	1080 x (1±10%)
48	36.0	2.40	62.4	4400 x (1±10%)

Sensitive type (Only for 1 Form A)

constituting (only for 11 only A)				
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.25	6.5	100 x (1±10%)
6	4.50	0.30	7.8	145 x (1±10%)
9	6.75	0.45	11.7	325 x (1±10%)
12	9.00	0.60	15.6	575 x (1±10%)
18	13.5	0.90	23.4	1300 x (1±10%)
24	18.0	1.20	31.2	2310 x (1±10%)

SAFETY APPROVAL RATINGS				
	1 Form C	10A 250VAC 10A 30VDC		
UL/CUL	1 Form A	10A 250VAC 10A 30VDC TV-5 125VAC		
TÜV	10A 250VAC COSØ =1 10A 30VDC L/R=0			

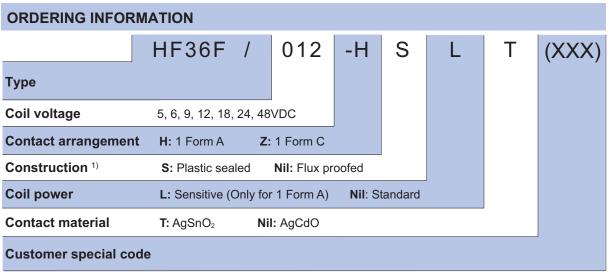
Notes: Only some typical ratings are listed above. If more details are required, please contact us.



ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

5 x 10⁴ ops

2012 Rev. 1.01



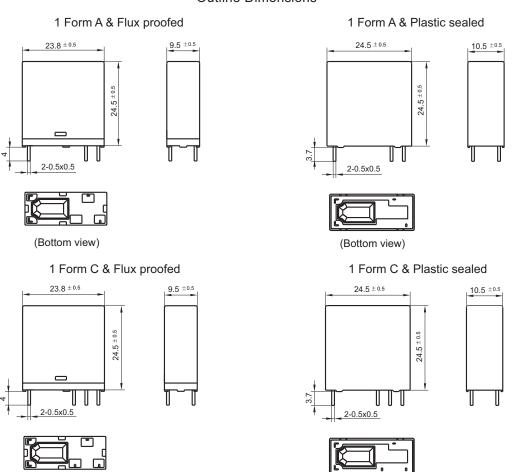
Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



(Bottom view)

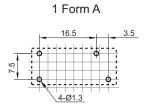
(Bottom view)

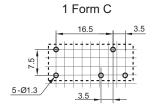
Wiring Diagram (Bottom view)





PCB Layout (Bottom view)

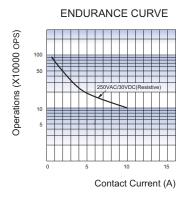


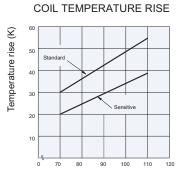


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES





Percentage Of Nominal Coil Voltage

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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