HF141FF

MINIATURE HIGH POWER RELAY



File No.:E133481



File No.:CQC09002034351



Features

- 10A switching capability
- 5kV dielectric strength (between coil and contacts)
- Sockets available
- 1 Form A ,1 Form B and 1 Form C configurations
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: 29.0mm x 12.6mm x 20.6mm

CONTACT DATA		
	1A, 1B, 1C	
50mΩ ma	x.(at 1A 6VDC)	
AgSnO ₂ , AgCdO		
Standard	High Capacity	
8A 250VAC /30VDC 10A 125VAC	10A 30VDC 10A 250VAC	
2000VA / 240W	2500VA / 300W	
	10A	
2	50VAC / 30VDC	
	1 x 10 ⁷ ops	
High capactiy type: 1 x 1 10A 250VAC/30VD	C, Resistive load, np., 1s on 9s off), 0 ⁵ OPS (NO or NC, OC, Resistive load,	
	50mΩ ma A Standard 8A 250VAC /30VDC 10A 125VAC 2000VA / 240W 2: Standard type: 1 x 10 8A 250VAC/30VDC Room ten High capactiy type: 1 x 1	

Notes: 1) The data shown above are initial values.

²⁾ For plastic sealed type, the venting-hole should be excised in electrical endurance test.

CHARACTERISTICS			
Insulation resistance			1000MΩ (at 500VDC)
Dielectric	Between coil & contacts		5000VAC 1min
strength	Between open contacts		1000VAC 1min
Operate time (at nomi. volt.)			15ms max.
Release time (at nomi. volt.)			5ms max.
Vibration resistance			10Hz to 55Hz 1.5mm DA
		Functional	98m/s²
Shock resi	stance	Destructive	980m/s ²
Humidity			5% to 85% RH
Ambient temperature			-40°C to 85°C
Termination			PCB
Unit weight			Approx. 13g
Construction			Plastic sealed, 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

Coil power	Standard: Approx. 720mW
	Sensitive: Approx. 550mW

COIL DATA

at 23°C

Standard type

COIL

Standard type				
Nominal Voltage VDC	Pick-up Voltage VDC max. ²)	Drop-out Voltage VDC min. ²⁾	Max. Voltage VDC *3)	Coil Resistance Ω
5	4.0	0.5	6.5	36 x (1±10%)
6	4.8	0.6	7.8	50 x (1±10%)
9	7.2	0.9	11.7	115 x (1±10%)
12	9.6	1.2	15.6	200 x (1±10%)
18	14.4	1.8	23.4	460 x (1±10%)
24	19.2	2.4	31.2	820 x (1±10%)
48	38.4	4.8	62.4	3300 x (1±10%)

Sensitive type

Nominal Voltage VDC	Pick-up Voltage VDC max. ²)	Drop-out Voltage VDC min. ²⁾	Max. Voltage VDC* 3)	Coil Resistance Ω
5	4.0	0.5	6.5	47 x (1±10%)
6	4.8	0.6	7.8	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%)
			000/ 5	

Notes: 1) When requiring pick-up voltage < 80% of nominal voltage,

- special order allowed.
 2) The data shown above are initial values.
- 3) *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.
- 4) Under ambient temperature, applying more than 80% of rating voltage to coil, relay will take action accordingly. But in order to meet the stated product performance, please apply rated voltage to coli.



HONGFA RELAY

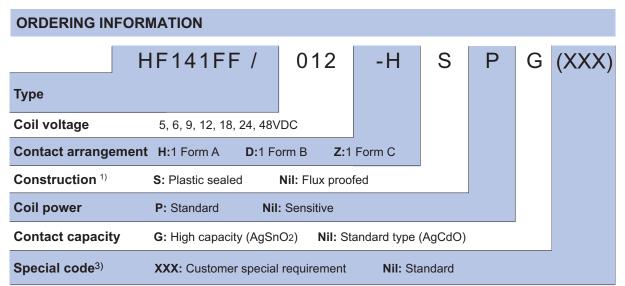
ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2018 Rev. 1.00

SAFETY APPROVAL RATINGS			
	High Capacity	10A 30VDC/250VAC	
UL/CUL	Standard	8A 30VDC/250VAC	
		10A 125VAC	

Notes: 1) All values unspecified are at room temperature.

²⁾Only typical loads are listed above. Other load specifications can be available upon request.

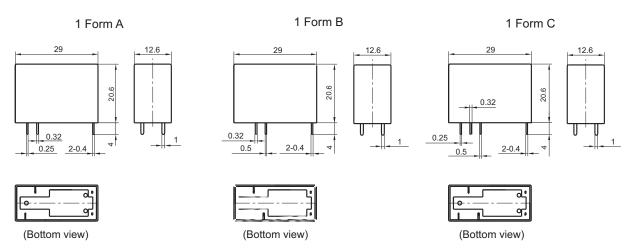


Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCR
- 3) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

Outline Dimensions



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

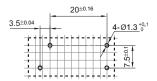
2) The tolerance without indicating for PCB layout is always ±0.1mm.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

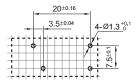
Unit: mm

PCB Layout (Bottom view)

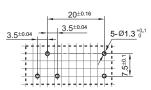
1 Form A



1 Form B



1 Form C



Remark: The width of the gridding is 2.5mm.

Wiring Diagram (Bottom view)

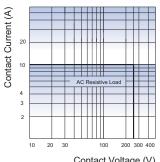






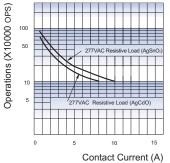
CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



Contact Voltage (V)

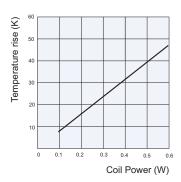
ENDURANCE CURVE



Test conditions:

No contact, Resistive load, Flux proofed, Room temp., 1s on 9s off.

COIL TEMPERATURE RISE



Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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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