HF115FK

MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:116934



File No.:CQC13002103948



Features

- Low height: 15.7 mm
- 16A switching capability
- 5kV dielectric strength

(between coil and contacts)

- Creepage distance: 10mm
- Meeting reinforce insulation
- Product in accordance to IEC 60335-1 available
- Dust protected and flux proofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.7 x 15.7) mm

CONTACT DATA		
Contact arrangement	1A, 1C	2A, 2C
Contact resistance	100mΩ max.(at 1A 6VDC)	
Contact material	AgSnO ₂	
Contact rating (Res. load)	12A/16A 250VAC	8A 250VAC
Max. switching voltage	400VAC	
Max. switching current	12A / 16A	8A
Max. switching power	3000VA / 4000VA	2000VA
Mechanical endurance	1 x 10 ⁷ OPS	
Electrical endurance	5 x 10 ⁴ ops (See approval reports for more details)	

CHARACTERISTICS				
Insulation resistance		1000MΩ (at 500VDC)		
Diala stria	Between coil & contacts		5000VAC 1min	
Dielectric strength	Between open contacts		1000VAC 1min	
	Between contact sets		2500VAC 1min	
Surge voltage (between coil & contacts)		10kV (1.2 / 50µs)		
Operate time (at nomi. volt.)		10ms max.		
Release time (at nomi. volt.)		5ms max.		
		Functional	98m/s²	
Shock resistance	stance *	Destructive	980m/s²	
Vibration resistance *		10Hz to 150Hz 10g/5g		
Humidity		5% to 85% RH		
Ambient temperature		-40°C to 85°C		
Termination		PCB		
Unit weight		Approx. 13g		
Construction		Dust protected, Flux proofed		

Notes: 1) The data shown above are initial values.
2) * Index is not in relay length direction.

COIL	
Coil power	Approx. 400mW

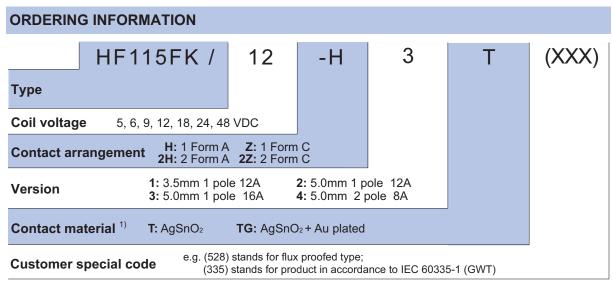
COIL	DATA			at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC *	Coil Resistance Ω
5	3.50	0.5	7.5	62 x (1±10%)
6	4.20	0.6	9.0	90 x (1±10%)
9	6.30	0.9	13.5	202 x (1±10%)
12	8.40	1.2	18	360 x (1±10%)
18	12.60	1.8	27	810 x (1±10%)
24	16.80	2.4	36	1440 x (1±10%)
48	33.60	4.8	72	5760 x (1±15%)

Notes: * The max. allowable voltage in the COIL DATA is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in a very short time.

SAFETY APPROVAL RATINGS				
	2Z4T: 8A 250VAC at 85°C			
UL/CUL	Z1T: 12A 250VAC at 85°C			
OL/COL	Z2T: 12A 250VAC at 85°C			
	Z3T: 16A 250VAC at 85°C			
	2Z4T: 8A 250VAC at 85°C			
	Z1T: 12A 250VAC at 85°C			
VDE	Z2T: 12A 250VAC at 85°C			
	Z3T: 16A 250VAC at 85°C			
	H3T: 10A 250VAC at 85°C			

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





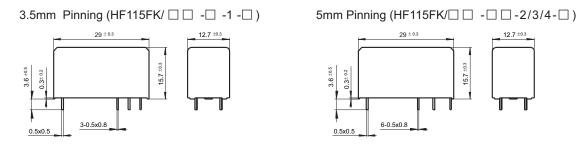
Notes: 1) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC;

2) We recommend dust protected and plux proofed types for a clean environment (free form contamination like H₂S, SO₂, NO₂, dust, etc.). Especially, avoiding flux and pollutant ingress into relay for dust protected type.

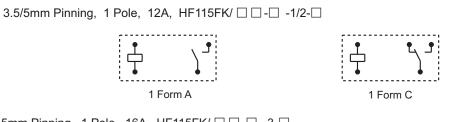
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

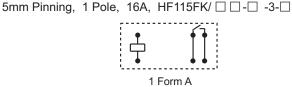
Unit: mm

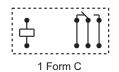
Outline Dimensions



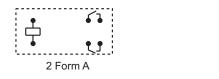
Wiring Diagram (Bottom view)

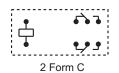






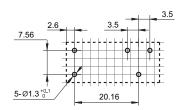
5mm Pinning, 2 Pole, 8A, HF115FK/ □ □ -2 □ -4-□



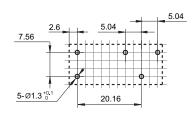


PCB Layout (Bottom view)

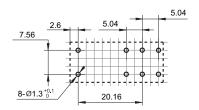
3.5mm 1Pole 12A



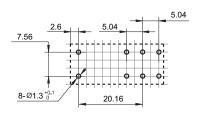
5mm 1Pole 12A



5mm 1Pole 16A



5mm 2Pole 8A



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.
- 3) The width of the gridding is 2.52mm.

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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