HF115FP

MINIATURE POWER RELAY

c **AU** US

File No.: E133481



DVE.

File No.: 116934

Features

- 1 pole 16A, 2 pole 8A, 1 CO & 2 CO contacts
- 5kV dielectric, Creepage distance 8 mm (coil to contacts)
- Meeting VDE 0700, 0631 reinforce insulation
- DC/AC coil type relay , Coil power 400mW / 0.75VA
- Manual test device
- Type with mechanical indicator / electrical indicator
- Sockets available
- Class A insulation system
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 13.0 x 25.5) mm

CONTACT DATA		
Contact arrangement	1C	2C
Contact resistance	100mΩ ma	ax.(at 1A 6VDC)
Contact material		AgNi
Contact rating (Res. load)	16A 250VAC	8A 250VAC
Max. switching voltage		440VAC
Max. switching current	16A	8A
Max. switching power	4000VA	2000VA
Mechanical endurance		5 x 10 ⁶ ops
Electrical endurance	See approval report	s for more details

CHAR	ACTER	ISTIC	S		
Insulation resistance		1000MΩ (at 500VDC)			
	Between	Between coil & contacts		5000VAC 1min	
Dielectric strength	Between open contacts			1000VAC 1min	
	Between contact sets			2500VAC 1min	
Operate ti	Operate time (at nomi. volt.)			DC type: 15ms max.	
Release time (at nomi. volt.)			DC type: 8ms max.		
T			- 11. \	DC type: 60K max	
Temperature rise (at nomi. volt.)		olt.)	AC type: 85K max.		
Shock resistance*		Functional		98m/s	
		Destructive		980m/s²	
		NO	10Hz to 150Hz 10		
Vibration resistance*	NC	length	direction: 10Hz to 150Hz 2g		
		other direction: 10Hz to 150Hz 5g			
Humidity		35% to 85% RH			
Ambient temperature			-40°C to 70°C		
Termination			PCB		
Unit weight		Approx. 16			
Mounting distance		5mm,			
		packing of sockets			

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

COIL	
0. "	DC type: Approx. 400mW;
Coil power	AC type: Approx. 0.75VA

Notes: The data shown above don't include the power of electronic indicating circuit when the relay picks-up.

COIL DATA at 23°C

DC type

20.350					
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC *	Coil Resistance Ω	
12	8.4	1.2	18	360 x (1±10%)	
24	16.8	2.4	36	1440 x (1±10%)	
48	33.6	4.8	72	5760 x (1±15%)	
110	77.0	11.0	165	25200 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.

AC type(50Hz)

Nominal Voltage VAC	Pick-up Voltage VAC max.	Drop-out Voltage VAC min.	Coil Current mA	Coil DC Resistance Ω
24	18.0	3.6	31.6	350 x (1±10%)
115	86.3	17.25	6.6	8100 x (1±15%)
230	172.5	34.5	3.2	32500 x (1±15%)

SAFETY APPROVAL RATINGS			
UL/CU		1 Form C	16A 250VAC
	UL/CUL	2 Form C	8A 250VAC
VDE	VDE	1 Form C	16A 250VAC
	VDE	2 Form C	8A 250VAC

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



HONGFA RELAY

ORDERING INFORMATION

HF115FP /

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В

(XXX

Type

Coil voltage

012 to 110: 12, 24, 48, 110 VDC **A24 to A230**: 24, 115, 230 VAC

Contact arrangement

1Z: 1 Form C

2Z: 2 Form C

Version

3: 5.0mm 1 pole 16A

4: 5.0mm 2 pole 8A

Contact material

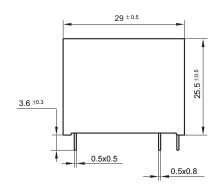
B: AgNi

Customer special code

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

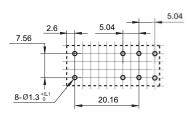
Unit: mm

Outline Dimensions





PCB Layout (Bottom view)



DIN rail Socket

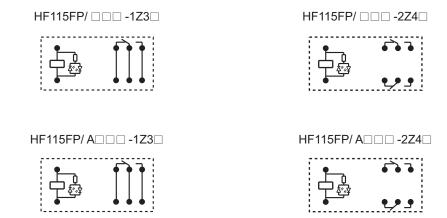


Solder Socket



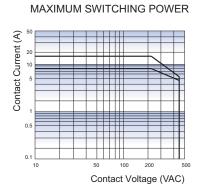
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
 - 2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm.$
 - 3) The width of the gridding is 2.52 mm.

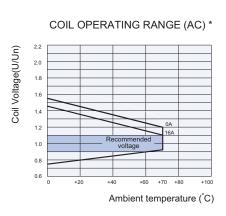
Wiring Diagram (Bottom view)

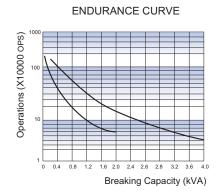


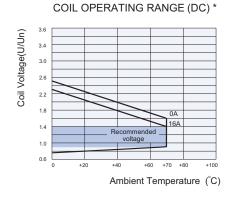
Remark: DC coil with a parrelled diode is available but the coil terminal is different in postive or cathode.

CHARACTERISTIC CURVES









Notes: * The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical life.

An energising voltage over the abver range may damage the insulation of relay coil.