HF3FA-W

SUBMINIATURE HIGH POWER RELAY

c **91** us

File No.: E134517



File No.: 40023708



File No.:CQC12002076529



Features

- 10A 36VDC switching capability
- Flammability class according to UL94, V-0
- Product in accordance to IEC 60335-1 available
- Plastic sealed and flux proofed types available
- Subminiature, standard PCB layout
- UL insulation system: Class F

RoHS compliant

CONTACT DATA			
	1C		
Contact arrangement	NO	NC	
Contact resistance	100mΩ n	nax.(at 1A 6VDC)	
Contact material		AgSnO ₂	
Contact rating	8A 277VAC	5A 250VAC	
(Res. load)	10A 36VDC	5A 250VAC	
Max. switching voltage	277VAC/36VDC	250VAC	
Max. switching current	10A	5A	
Max. switching power		2770VA /360W	
Mechanical endurance		1 x 10 ⁷ ops	
Electrical endurance		NO:1 x 10 ⁵ ops	
	(10A 36VDC, Resistive load,		
	Room to	emp., 1s on 9s off)	

COIL	
Coil power	Approx. 800mW

COIL DATA at 23°C				
Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC ²⁾	Coil Resistance Ω
12	9	0.6	15.6	180 x (1±10%)
24	18	1.2	31.2	720 x (1±10%)

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

 Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

CHARACTERISTICS			
Insulation resistance		100MΩ (at 500VDC)	
otronath		n coil & contacts	2500VAC 1min
		open contacts	750VAC 1min
Operate time (at rated. volt.)		10ms max.	
Release time (at rated. volt.)		5ms max.	
Shock resistance	Functional	98m/s²	
	Destructive	980m/s²	
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Humidity		5% to 85% RH	
Ambient temperature		-40°C to 85°C	
Termination		PCB	
Unit weight		Approx. 8.0g	
Construction		Plastic sealed, Flux proofed	

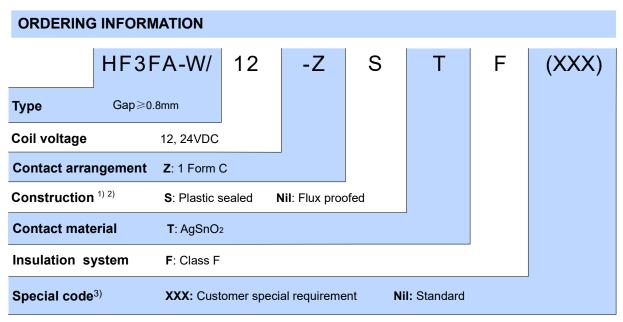
Notes: 1) The data shown above are initial values.

SAFETY APPROVAL RATINGS		
UL/CUL	Z	NO:8A 277VAC at 85°C
		NO:10A 24VDC at 45°C
		NO:10A 36VDC at 40°C
VDE	Z	NO:8A 250VAC at 85°C
		NO:10A 24VDC at 45°C

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

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

 3) For sealed type, the vent-hole cover should be excised.

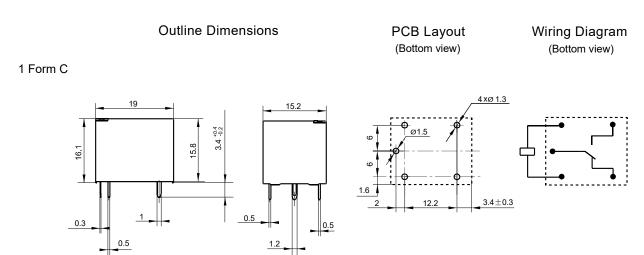


- Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

 We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc).
 - 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
 - 3) The customer special requirement express as special code after evaluating by Hongfa. e.g.(335) stands for product in accordance to IEC 60335-1 (GWT).

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

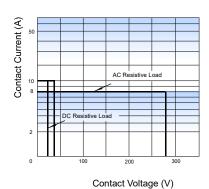
Unit: mm



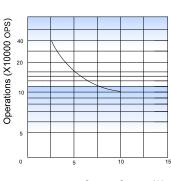
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
 - 2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

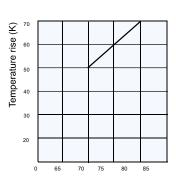
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Contact Current (A) Percentage of Nominal Coil Voltage

Test conditions:NO: Resistive load, 36VDC,Flux proofed, Room temp., 1s on 9s off

Test conditions: at 85°C, 8A
Mounting distance: 10mm
Driving voltage: Coil activated with
rated voltage, then reduce to 80% of

rated voltage.

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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