HF152F

SUBMINIATURE HIGH POWER RELAY



File No.: E134517







Features

- 20A switching capability
- Surge voltage up to 6000VAC (between coil and contacts)
- 1 Form C & 1 Form A configurations available
- PCB terminals
- Sealed IP67 and flux proof types available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 21.0 x 16.0 x 20.6 mm

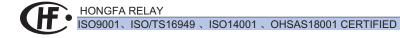
CONTACT DATA				
1A	1C			
	100mΩ			
	(at 1A 24VDC)			
	AgNi, AgSnO ₂			
20A 125VAC	NO: 16A 250VAC			
17A 277VAC	NC: 10A 250VAC			
277VAC	250VAC			
20A	16A			
4700VA	4000VA			
	1 x 10 ⁷ ops			
1 x 10⁵ops	5 x 10⁴ops			
	1A 20A 125VAC 17A 277VAC 277VAC 20A 4700VA			

CHARACTERISTICS				
Initial insulation resistance			100MΩ (at 500VDC)	
Dielectric	Between coil & contacts		3000VAC, 1 min.	
strength	Between open contacts		1000VAC, 1 min.	
Surge voltage (between coil & contacts)			6000VAC	
Operate time (at nomi. volt.)			Max. 10ms	
Release time (at nomi. volt.)			Max. 5ms	
Temperature rise (at nomi. volt.)			Max. 60°C	
Shock ros	sistanco	Functional	98m/s² (10g)	
Shock resistance		Destructive	980m/s²(100g)	
Vibration resistance			10 to 55Hz 1.5mm	
Humidity			35 to 85% RH	
Ambient temperature			-40°C to +105°C	
Termination			PCB	
Unit weight			Approx.14g	
Construction			Sealed IP67, Flux proof	

COIL	
Coil power	360mW

COIL DATA				
Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω)
5	3.80	0.5	6.0	70 ± 10%
6	4.50	0.6	7.2	100 ± 10%
9	6.80	0.9	10.8	225 ± 10%
12	9.00	1.2	14.4	400 ± 10%
18	13.5	1.8	21.6	900 ± 10%
24	18.0	2.4	28.8	1600 ± 10%
48	36.0	4.8	57.6	6400 ± 10%

SAFETY APPROVAL RATINGS					
	1 Form A	20A 125VAC			
UL&CUR		17A 277VAC			
OLACON		1HP 250VAC			
		1HP 125VAC			
		16A 250VAC			
	1 Form A	20A 125VAC			
-0.7		at 85°C			
TÜV	1 Form C	NO: 16A 250VAC			
(pending)		NC: 10A 250VAC			
		at 85°C			



ORDERING INFORMATION

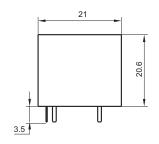


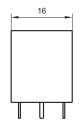
Notes: Flux proof type is recommended. If sealed type is selected for cleaning purpose, the vent-hole cover should be excised after cleaning.

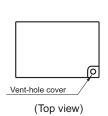
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

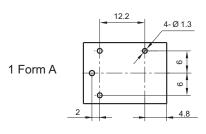
Outline Dimensions

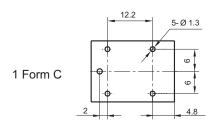




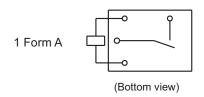


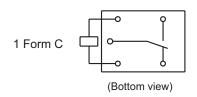
PCB Layout





Wiring Diagram

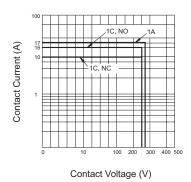




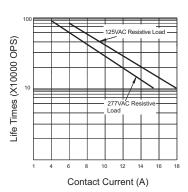
Remark: General tolerance is \pm 0.3mm.

CHARACTERISTIC CURVES

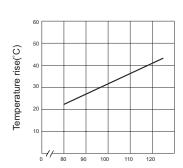
MAX. SWITCHING POWER



LIFE CURVE



COIL TEMPERATURE RISE



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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