HK 14F

MINIATURE HIGH POWER RELAY



Features

- 10A switching
- 5kV dielectric strength
- Plastic sealed and dust protected types available
- Environmental friendly product(RoHS compliant)
- Outline Dimensions: (29.0 x 12.7 x 20.8) mm

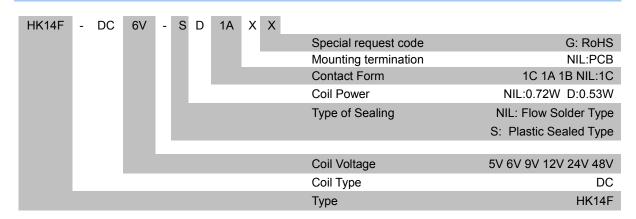
■ CONTACT DATA				
Contact Form	1A 1C			
Contact Material	Silver Alloy			
Contact Ratings	10A 250VAC /10A 30VDC			
Max Switching Voltage	250VAC/30VDC			
Max Switching Current	10A			
Max Switching Power	2500VA /300W			
Contact Resistance	100MΩ(at 1A 6VDC)			
Electrical Life	1X10 ⁵ Ops(30Ops/min)			
Mechanical Life	1X10 ⁷ Ops(300Ops/min)			

■ GENERAL DATA					
Insulation Resistance		100MΩ 500VDC			
Dielectric Strength	Between coil & contacts	5000VAC 1min			
	Between open contacts	1000VAC 1min			
Operate Time		Max. 15ms			
Release Time		Max. 5ms			
Temperature Range		- 40℃ to +70℃			
Shock Resistance	Functional	98m/s ² (10g)			
	Destructive	980m/s ² (100g)			
Vibration Resistance		10 to 55Hz 1.5mm			
Humidity		40% to 85% RH			
Weight		Approx. 14g			
Safety Standard		CUL TüV			

■ COIL DATA							
Nominal Voltage (VDC)	Coil Resistance at 20 °C ± 10%(Ω)		Max Operate Voltage	Min Release Voltage	Max Applicate Voltage		
	0.53W	0.72W	(VDC)	(VDC)	(VDC)		
3	17	12.5	2.25	0.30	4.20		
5	47	36	3.75	0.50	7.00		
6	68	50	4.50	0.60	8.40		
9	160	115	6.75	0.90	12.60		
12	275	200	9.00	1.20	16.80		
24	1100	800	18.00	2.40	33.60		
48	4170	3200	36.00	4.80	67.20		

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ORDERING INFORMATION



- Notes:1) We recommend dust protected 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).
 - If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

1 Form A

2) The standard type is made of black cover. If smoke cover is required, please add a special suffix (611) when ordering. Please take note that smoke cover is only available for dust protected type.

12.7 29 12.7 Outline 20.8 20.8 **Dimensions** 0.5 0.5 8.0 0.8 0.5 0.3 0 (Bottom view) (Bottom view) Wiring Diagram (Bottom view)

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be ±0.2mm; outline dimension >1mm and \leq 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 2.5 mm.

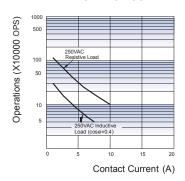
PCB Layout (Bottom view)

Unit: mm

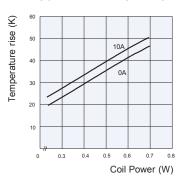
1 Form C

CHARACTERISTIC CURVES

ENDURANCE CURVE



COIL TEMPERATURE RISE



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 tight position choose the suitable product for their own application. If there is any query, please contact Ever-way for the technical service. However, it is the user's responsibility to determine which product should be used only.

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