

Miniature PCB Power Relay

HG4124



FEATURES

- 5A to 10A contact capacity
- 1 Form A to 2 Form C contact forms for choice
- 5 KV dielectric strength between coil and contacts
- Sealed and dust cover version available
- UL, CUR approved

TYPICAL APPLICATIONS

- Home appliances
- Office machine
- Vending machine
- Air conditioner, refrigerator

CONTACT RATING

Form	1 Form A (1H) 1 Form C (1Z)	2 Form A (2H) 2 Form C (2Z)
Rated Load	10A, 220VAC/30VDC; TV-5	5A, 250VAC/30VDC
Max. Switching Current	10A	10A
Max. Switching Voltage	250VAC/30VDC	250VAC/30VDC
Max. Switching Power	2200VA/300W	1100VA/150W

UL/CUR RATING

Form	1 Form A (1H) 1 Form C (1Z)	2 Form A (2H) 2 Form C (2Z)
General Purpose	10A, 277VAC (NO)	10A, 250VAC/30VDC
Resistive	10A, 30VDC	8A, 30VDC
TV	5A, 120VAC (NO)	3A, 125VDC
Motor	1/3 HP, 250VAC 1/4 HP, 125VAC (NO)	

CONTACT DATA

Material	AgCdO	
Initial Contact Resistance	50 mΩ max. at 1A, 6VDC	
Service Life	Mechanical	10 ⁷ ops.
	Electrical	10 ⁵ ops.

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
		Power Consumption			
003	3	17	0.55W	2.25	0.3
005	5	47		3.75	0.5
006	6	68		4.50	0.6
009	9	160		6.75	0.9
012	12	275		9.00	1.2
018	18	650		13.50	1.8
024	24	1100*		18.00	2.4
048	48	4170*		36.00	4.8
060	60	7000*		45.00	6.0

CHARACTERISTICS

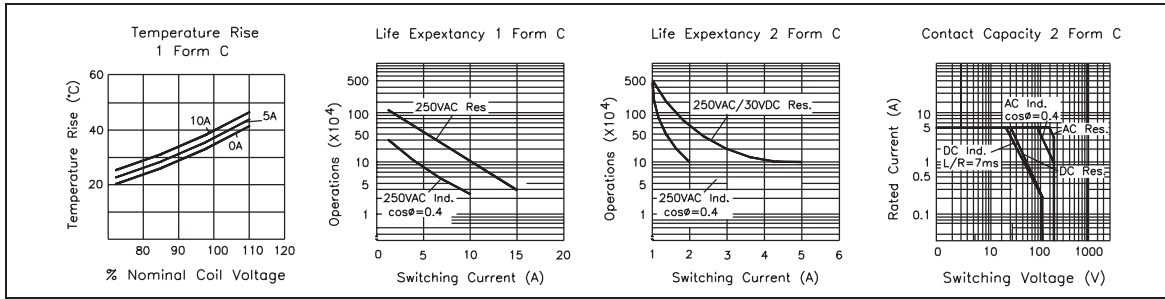
Operate Time	15 ms. max.
Release Time	5 ms. max.
Insulation Resistance	1000 MΩ, at 500 VDC, 50%RH
Dielectric Strength	5000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts 3000 Vrms, 1 min. between poles
Shock Resistance	10 g, 11ms. functional; 100g, destructive
Vibration Resistance	DA 1.5mm, 10 - 55 Hz
Ambient Temperature	-40°C to 70°C
Weight	18 g, approx.

ORDERING DESIGNATION

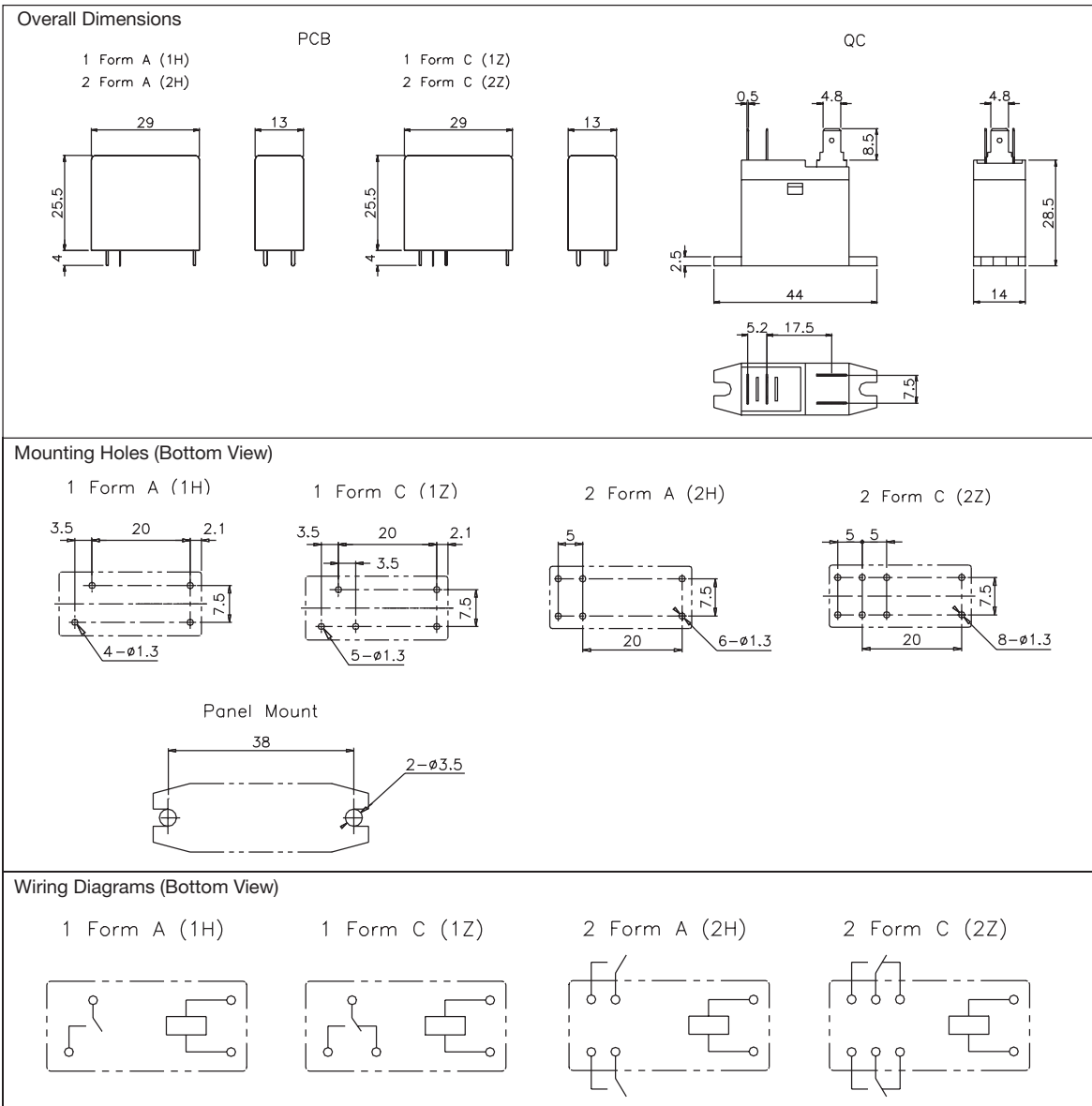
Example:	HG4124 /	012 -	1Z	2	Q
Model					
Coil Voltage Code					
Contact Form					
1H: 1 Form A; 1Z: 1 Form C					
2H: 2 Form A; 2Z: 2 Form C					
Version					
1: 1Sealed, 2: Dust Cover					
Mounting Version					
Nil: PCB; Q: Top Flange*					

* Available for 1 Form A, 1 Form C only

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Coil resistance with * mark is ±15%.
3. Custom-made services available with operational quantity. Please let us know your special requirements.
4. Specifications subject to change without prior notice.