

FEATURES

- High ambient temperature - 105°C
- 10A and 16A contact capacity
- 1 Form A, C contact forms
- Sensitive coil version available
- 5 KV dielectric strength between coil and contacts
- 10 mm creepage distance between coil and contacts
- Low profile design, 15.7 mm in height
- Sealed and dust cover versions available

TYPICAL APPLICATIONS

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

CONTACT RATING

Form	1 Form A (1H) / 1 Form C (1Z)
Rated Load	16A, 250VAC (standart); 10A, 250VAC (Sensitive)
Max. Switching Current	16A
Max. Switching Voltage	440VAC
Max. Switching Power	2500VA

CONTACT DATA

Material	Ag Alloy	
Initial Contact Resistance	50 mΩ max. at 1A, 6VDC	
Service Life	Mechanical	10 ⁷ ops.
	Electrical	10 ⁵ ops. (6 ops/min.)

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω)±10%	Power Consumption	Must Operate Voltage Max. (VDC)	Max. Allowable Voltage at 20 °C (VDC)	Must Release Voltage Min. (VDC)
Standard						
005	5	62	0.4W	3.50	6.5	0.5
006	6	90		4.20	7.8	0.6
009	9	202		6.30	11.7	0.9
012	12	360		8.40	15.6	1.2
018	18	810		12.60	23.4	1.8
024	24	1,440		16.80	31.2	2.4
048	48	5,760		33.60	62.4	4.8
060	60	7,500*		42.00	78.0	6.0
Sensitive						
005	5	100	0.25W	3.75	6.5	0.5
006	6	144		4.50	7.8	0.6
009	9	324		6.75	11.7	0.9
012	12	576		9.00	15.6	1.2
018	18	1,296		13.50	23.4	1.8
024	24	2,304		18.00	31.2	2.4
048	48	9,216*		36.00	62.4	4.8
060	60	12,857*		45.00	78.0	6.0

CHARACTERISTICS

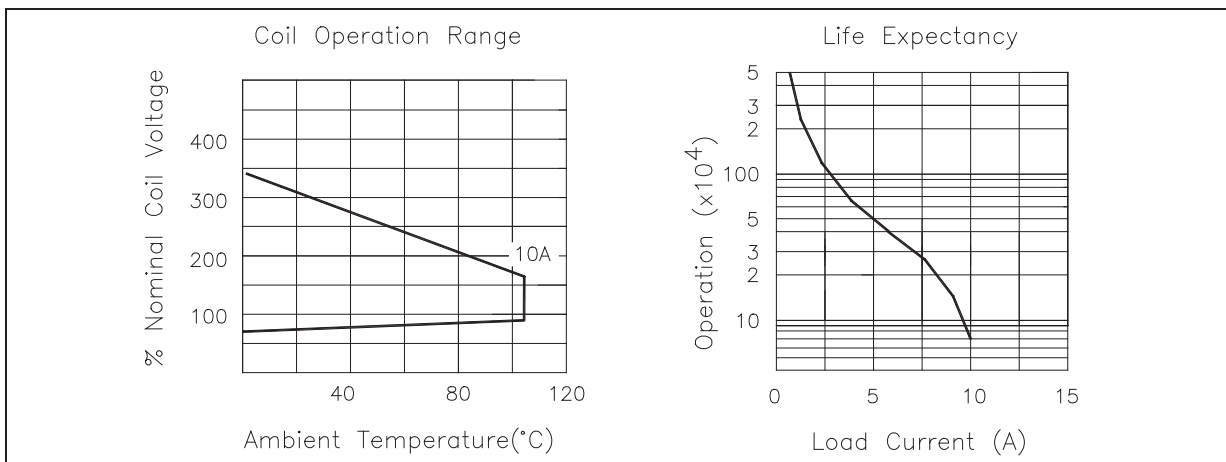
Operate Time	7 ms.
Release Time	3 ms.
Insulation Resistance	1000 MΩ, at 500 VDC, 50%RH
Dielectric Strength	5000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11ms. functional; 100 g, destructive
Vibration Resistance	5g/10g, 10 - 150 Hz
Ambient Temperature	-40°C to 85°C
Weight	13.5 g, approx.

HG4509D

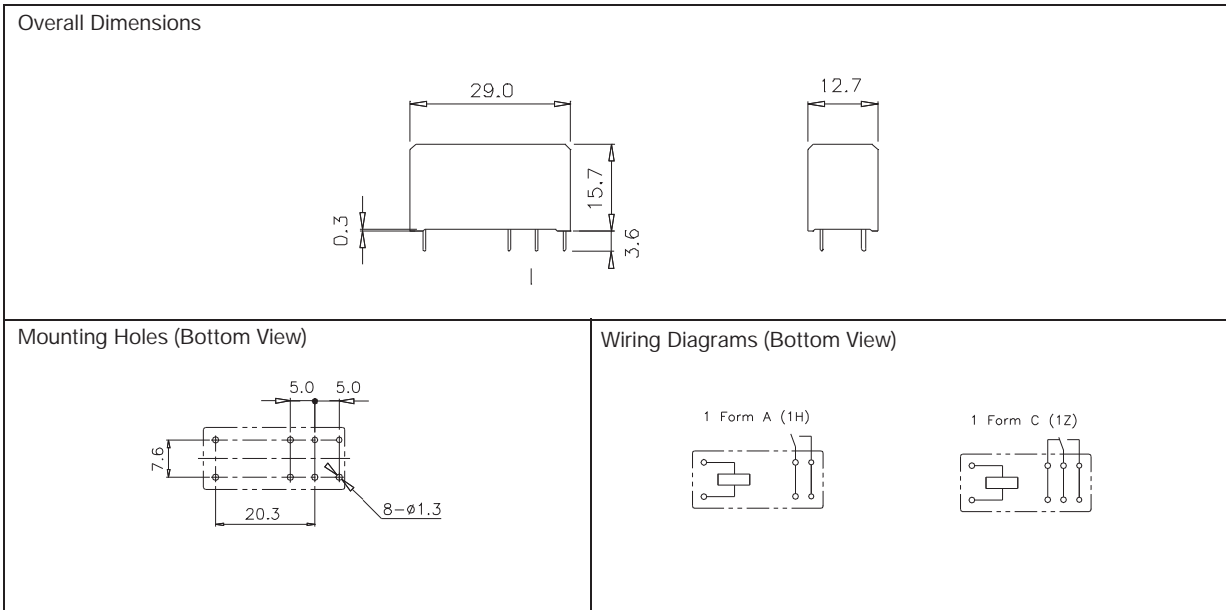
ORDERING DESIGNATION

Example:	HG4509D /	012 -	1Z	1	A	3	L
Model							
Coil Voltage Code							
Contact Form							
1H: 1 Form							
1Z: 1 Form C							
Version							
1: Sealed; 2: Dust Cover							
Contact Material							
Nil: AgCdO; A: AgNi10; S: AgSnO							
Structure Version							
3: 5 mm							
Coil Sensitivity							
Nil: Standard 0.4W							
L: Sensitive 0.25W							

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

- All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
- Custom-made services available with operational quantity. Please let us know your special requirements.
- Specifications subject to change without prior notice.

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