

FEATURES

- High inrush current - TV5
- 10A contact capacity
- 1 Form A contact form
- 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

CONTACT RATING

Form	1 Form A (1H)
Rated Load	10A, 250VAC; TV5
Max. Switching Current	16A
Max. Switching Voltage	440VAC
Max. Switching Power	4000VA

CONTACT DATA

Material	AgSnOInO	
Initial Contact Resistance	50 mΩ max. at 1A, 6VDC	
Service Life	Mechanical	10 <sup>7</sup> ops.
	Electrical	10 <sup>5</sup> ops. (TV5: 2.5 x 10 <sup>4</sup> ops)

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω)±10%	Power Consumption	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
005	5	62	0.4W	3.50	0.5
006	6	90		4.20	0.6
012	12	360		8.40	1.2
024	24	1,440		16.80	2.4
048	48	5,760		33.60	4.8
060	60	7,500		42.00	6.0
110	110	25,200		77.00	1.1

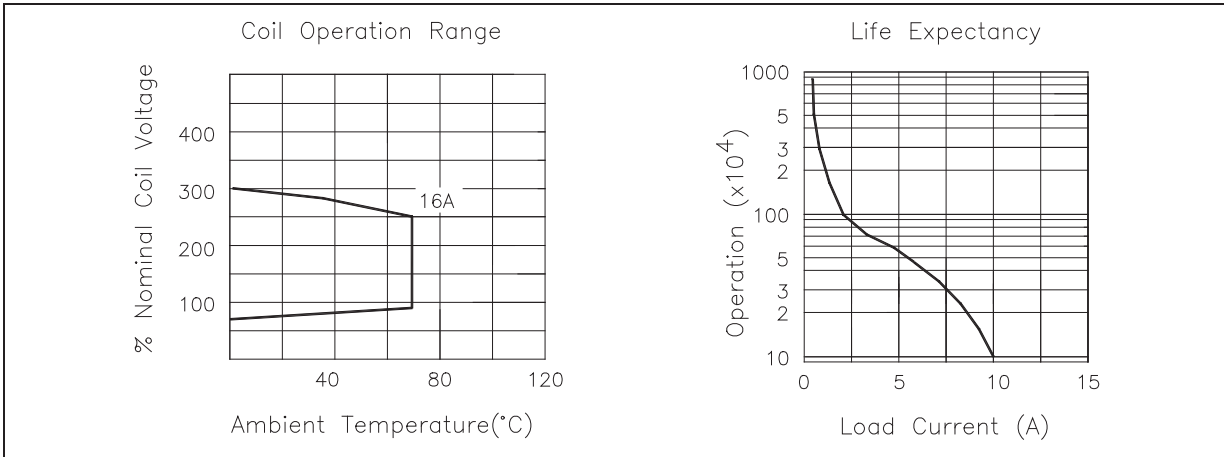
CHARACTERISTICS

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	20g, 10 - 150 Hz
Ambient Temperature	-40°C to 85°C
Weight	13.5 g, approx.

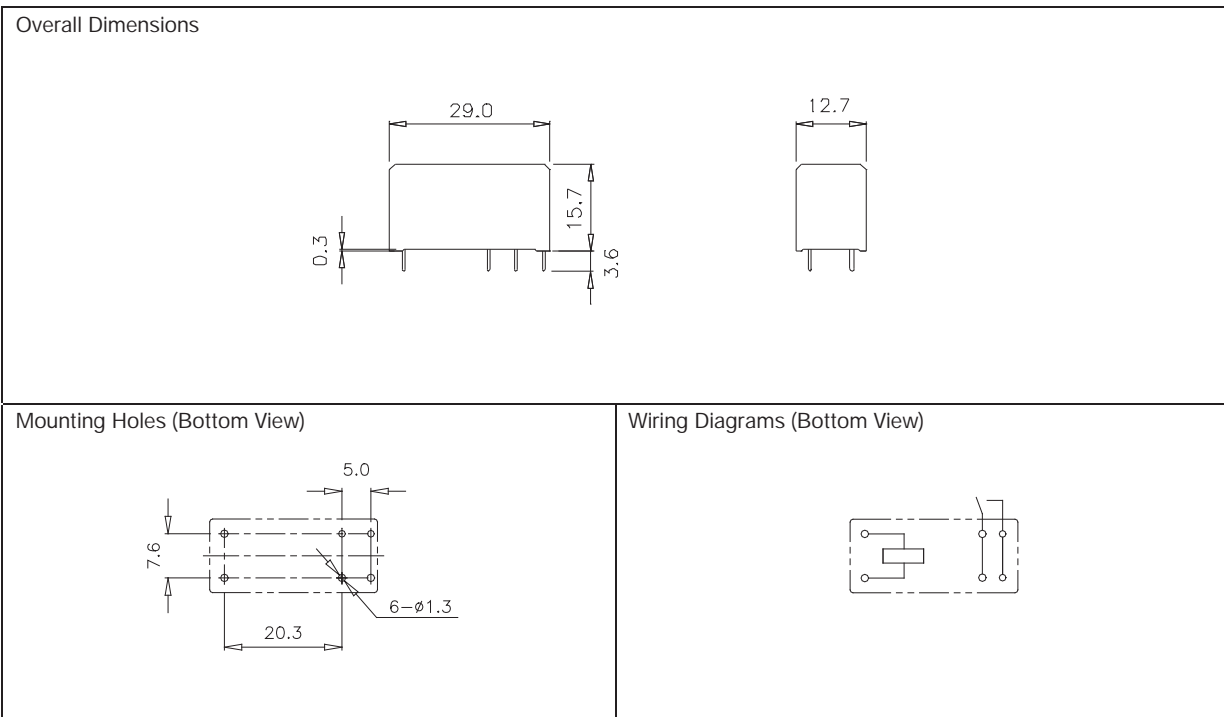
ORDERING DESIGNATION

Example:	HG4509C /	012 -	1H	1	3
Model					
Coil Voltage Code					
Contact Form 1H: 1 Form					
Version 1: Sealed; 2: Dust Cover					
Structure Version 3: 5 mm					

## 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. Custom-made services available with operational quantity. Please let us know your special requirements.
3. Specifications subject to change without prior notice.

T Y H Enterprise Limited  
 Room 1620B, Nan Fung Centre  
 264-298 Castle Peak Road  
 Tsuen Wan, N.T.  
 Hong Kong  
 Tel: 852-2416-0132  
 Fax: 852-2413-6229  
<http://www.tyhk.com>  
 email: [info@tyhkh.com](mailto:info@tyhkh.com)

Plant: Shanghai Hi-Gradex Relay Mfg. Co., Ltd.  
 918 Shixin Road  
 Airport Town  
 Pudong New Area  
 Shanghai 201202  
 China  
 Tel: 86-21-6299-5619 / -5877  
 Fax: 86-21-6299-5619  
 email: [tyhesh@online.sh.cn](mailto:tyhesh@online.sh.cn)