

FEATURES

- 20A switching capacity
- Withstand inrush current of 60A
- 10KV surge voltage between coil and contacts
- 8 mm creepage distance

TYPICAL APPLICATIONS

- Air conditioners
- Heaters and refrigeration control
- Microwave oven

CONTACT RATING

Form	1 Form A (H)
Resistive	20A, 250VAC

UL/CSA RATING

Form	1 Form A (H)
Resistive	20A, 220VAC

CONTACT DATA

Material	AgCdO	
Initial Contact Resistance	50 mΩ max. at 1A, 6VDC	
Max. Switching Current	20A	
Max. Switching Voltage	250VAC	
Max. Switching Power	5000VA	
Service Life	Mechanical	5 x 10 ⁶ 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)	Max. Allowable Voltage (VDC)
		Power Consumption				
005	5	27.8	0.9W	3.5	0.5	5.5
006	6	40		4.2	0.6	6.5
012	12	160		8.4	1.2	13.2
024	24	640		16.8	2.4	26.4
048	48	2560		33.6	4.8	52.8

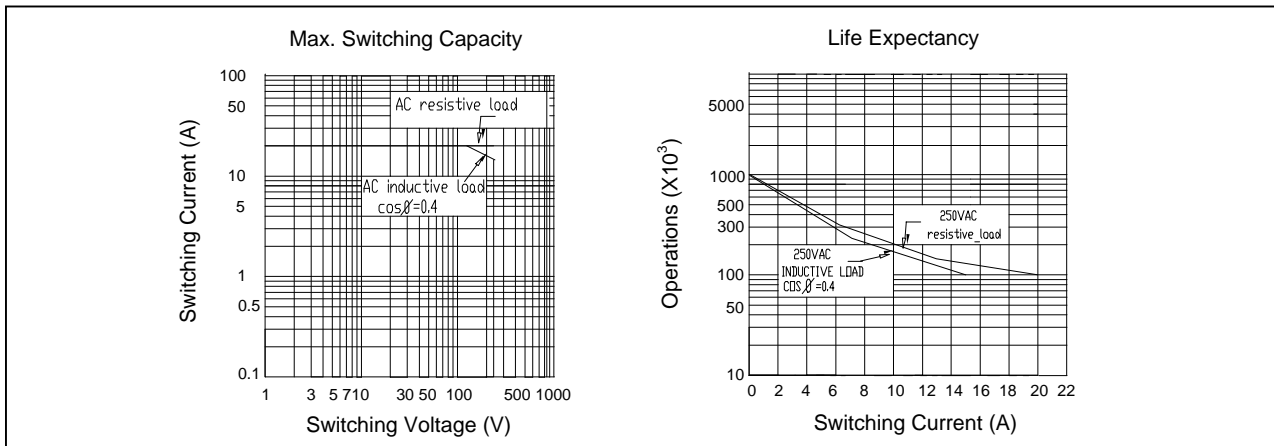
CHARACTERISTICS

Operate Time	15 ms. max.
Release Time	10 ms. max.
Insulation Resistance	1000 MΩ, at 500 VDC, 50%RH
Dielectric Strength	2000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Surge Voltage	10,000 V, between coil and contacts
Shock Resistance	20 g, 11ms. functional; 100g, destructive
Vibration Resistance	DA 1.5mm, 10 - 55 Hz
Ambient Temperature	-40°C to 55°C
Weight	42g, approx.

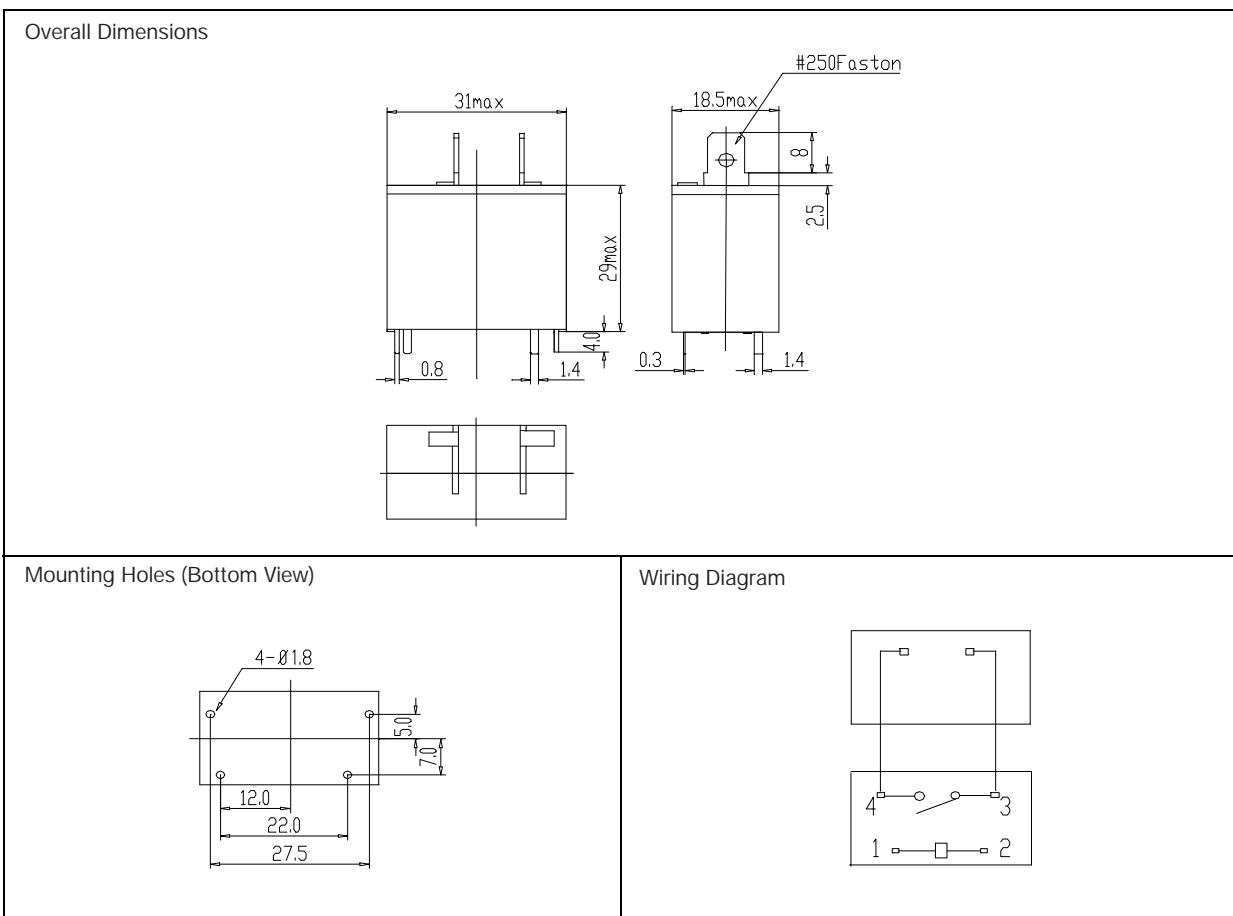
ORDERING DESIGNATION

Example:	HG4510 /	012 -	H	1	C	A
Model						
Coil Voltage Code						
Contact Form						
H: 1 Form A						
Version						
1: Sealed; 2:Unsealed						
Contact Material						
C: AgCdO; S: AgSnOInO						
Mounting & Termination Code						
A: PCB; B: PCB+QC						

REFERENCE CURVE



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAM (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.tyhhk.com>
 email: info@tyhhk.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