

**FEATURES**

- 5A contact capacity
- Slim design, 5mm in width
- 2KV dielectric between coil and contacts
- High sensitivity: 0.12-0.18W

**TYPICAL APPLICATIONS**

- Interface relay for programmable controllers
- Office machine, Industrial equipment
- Temperature controllers, timers, counters, etc.

**CONTACT RATING**

<b>Form</b>	<b>1 Form A (H)</b>
<b>Rated Load</b>	3A, 250VAC/30VDC
<b>Max. Switching Current</b>	5A
<b>Max. Switching Voltage</b>	250VAC/110VDC
<b>Max. Switching Capacity</b>	1250VA/150W

**CONTACT DATA**

<b>Material</b>	AgNi0.15; AgSnO	
<b>Initial Contact Resistance</b>	50 mΩ max @ 1A, 5VDC	
<b>Service Life</b>	<b>Mechanical</b>	2X10 <sup>7</sup> ops (120 ops./min)
	<b>Electrical</b>	10 <sup>5</sup> ops (6 ops./min)

**CONTACT DATA**

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (W) ±10% Standard Power Consumption	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
005	5	208	3.5	0.25
006	6	300	4.2	0.30
009	9	675	6.3	0.45
012	12	1200	8.4	0.60
018	18	2700	12.6	0.90
024	24	3200	16.8	1.20

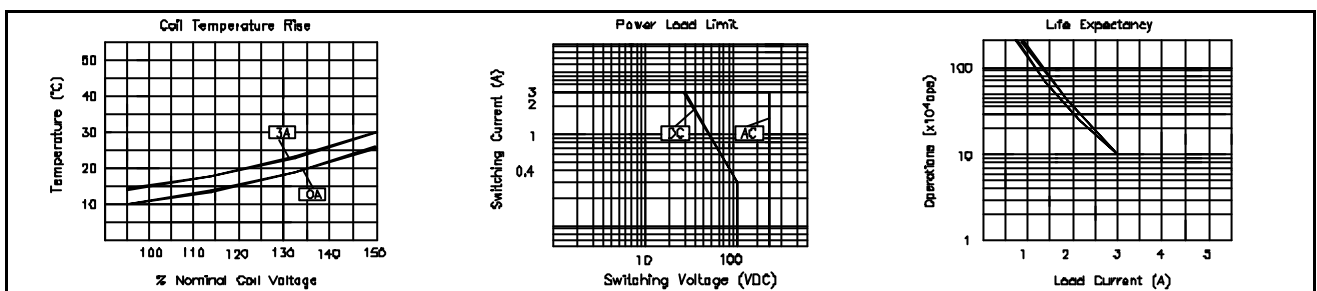
**ORDERING DESIGNATION**

<b>Example:</b>	HG4550/	012 -	H	1	S	1	F
<b>Model</b>							
<b>Coil Voltage Code</b>							
<b>Contact Form</b> H: 1 Form A							
<b>Version</b> 1: Sealed							
<b>Contact Material</b> A: AgNi0.15; S: AgSnO GS: AgSnO+Au clad BS: AgSnO+Au clad, bifurcated							
<b>Footprint Version</b> 1: Version 1(5.08) 2: Version 2(7.62)							
<b>Thermal Class</b> Nil: Class A; B: Class B; F: Class F							

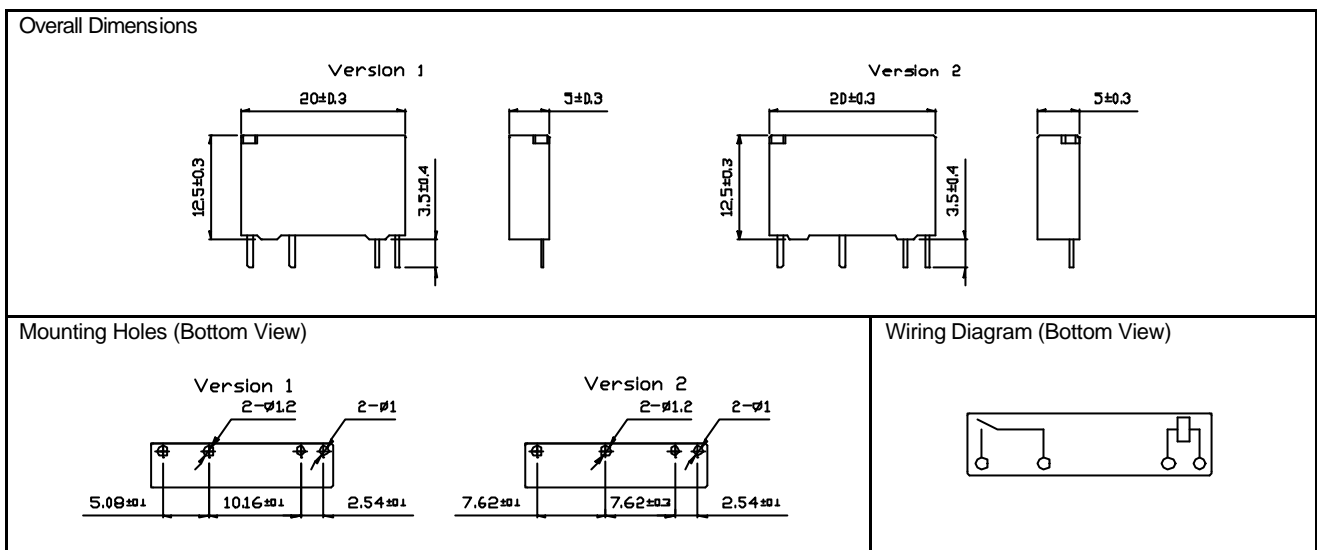
## CHARACTERISTICS

<b>Operate Time</b>	10 ms.
<b>Release Time</b>	5 ms.
<b>Insulation Resistance</b>	1000M $\Omega$ , at 500 VDC, 50%RH
<b>Temperature Rise</b>	45°C at nominal voltage
<b>Dielectric Strength</b>	2000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
<b>Surge Resistance</b>	4000V(12X50 $\mu$ s)
<b>Shock Resistance</b>	1.5 g, 11ms. functional, 10g, destructive
<b>Vibration Resistance</b>	SA 1.5 mm, 10 – 55 Hz
<b>Power Consumption</b>	0.12 – 0.18W
<b>Ambient Temperature</b>	-40 to 70°C
<b>Weight</b>	3 g, approx.

## REFERENCE CURVES



## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAM (mm)



## Notes

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C
2. The operate/release voltages are tested, terminal down position, when tested in other positions the operate/release voltages will have 5% tolerance. When in horizontal position the operate voltage is 75% nom.
3. Custom made services available with operational quantity. Please let us know your special requirements
4. Specifications subject to change without prior notice.

## Willow Technologies Limited

Shawlands Court, Newchapel Road,  
Lingfield, Surrey, England. RH7 6BL  
Tel: +44 (0) 1342 835234 Fax: +44 (0) 1342 834306  
email: sales@willow.co.uk <http://www.willow.co.uk>