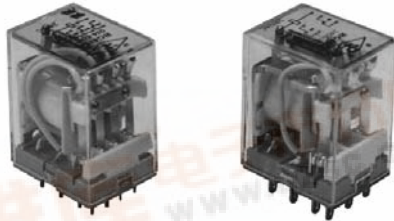




## Miniature General Purpose Relay

# HG4104



### FEATURES

- Miniature type, general purpose applications
- 2 to 4 poles contact form
- DC and AC coil available
- Various mounting options include socket, PCB and flange
- UL, CUR approved

### TYPICAL APPLICATIONS

- Machine tools
- Medical equipment
- Industrial control
- Transportation

### CONTACT RATING

Form	2 Form C (2Z), 3 Form C (3Z)		4 Form C (4Z)	
	Standard	Heavy Duty	Standard	Heavy Duty
Rated Load	5A, 220VAC/30VDC	7A, 220VAC/30VDC	3A, 220VAC/30VDC	5A, 220VAC/30VDC
Max. Switching Current	5A	7A	3A	5A
Max. Switching Voltage	250VAC/125VDC			
Max. Switching Power	1100VA/150W	1540VA/210W	660VA/90W	1100VA/150W

### UL/CUR RATING

Form	2 Form C (2Z)	3 Form C (3Z)	4 Form C (4Z)
General Use	3A, 240VAC/30VDC		
Resistive	7A, 250VAC/30VDC	5A, 250VAC/30VDC	5A, 250VAC/30VDC

### CONTACT DATA

Material		AgCe
Initial Contact Resistance		50 mΩ max. at 1A, 30VDC
Service Life	Mechanical	2 x 10 <sup>7</sup> ops.
	Electrical	2 x 10 <sup>5</sup> ops. for standard version 10 <sup>5</sup> ops. for heavy duty version

### COIL DATA

Type	Coil Voltage Code	Nominal Voltage (VDC/VAC)	Resistance (Ω) ±10%		Must Operate Voltage max. (VDC/VAC)	Must Release Voltage min. (VDC / VAC)
			Power Consumption			
DC	005	5	27.5	0.9W	4.0	0.5
	006	6	40		4.8	0.6
	012	12	160		9.6	1.2
	024	24	650		19.2	2.4
	048	48	2600*		38.4	4.8
	110	110	11000*		88.0	11.0
AC	006A	6	11.5	1.2VA	4.8	1.8
	012A	12	46		9.6	3.6
	024A	24	184		19.2	7.2
	048A	48	735		38.4	14.4
	120A	120	4550*		96.0	36.0
	220A/240A	220/240	14400*		176.0	66.0

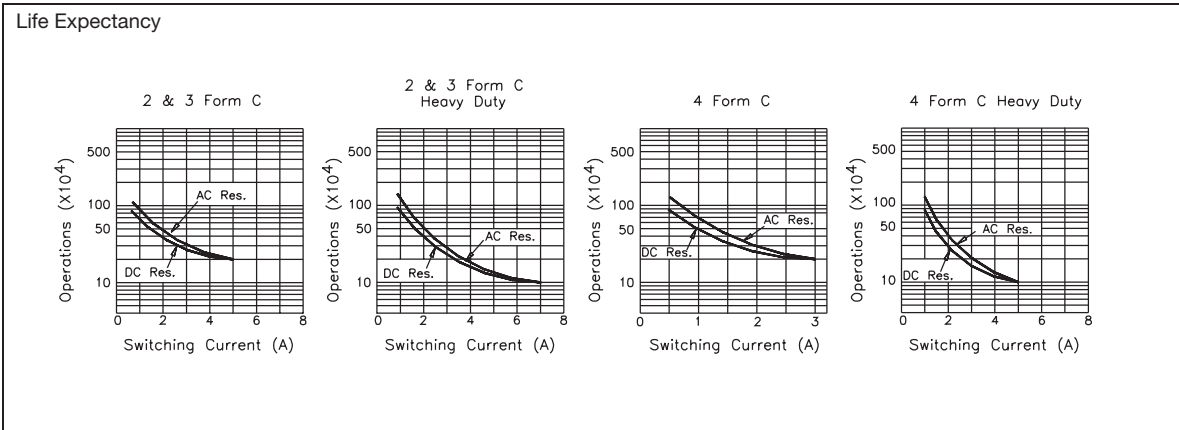
CHARACTERISTICS

Operate Time	25 ms.
Release Time	25 ms.
Insulation Resistance	1000 MΩ, at 500 VDC, 50%RH
Dielectric Strength	1500 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	DA 1.5 mm, 10 - 55 Hz
Ambient Temperature	-55°C to 70°C
Weight	37 g, approx.

ORDERING DESIGNATION

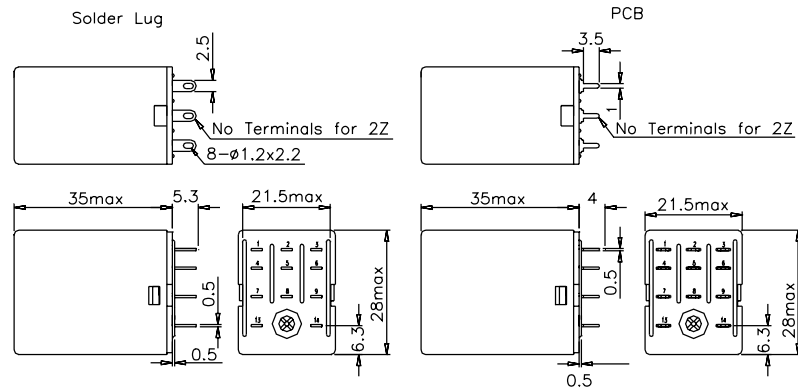
Example:	HG4104 /	012	A -	4Z	4	D	C	H
Model								
Coil Voltage Code								
DC/AC Nil: DC Coil; A: AC Coil								
Contact Form 2Z: 2 Form C 3Z: 3 Form C 4Z: 4 Form C								
Version Nil: Solder Lug 4: PCB 6: Top Flange 6A: Bottom Flange 6B: Lateral Flange								
Indicator Nil: Without LED; D: With LED								
Contact Material C: AgCe; S: AgSnInO								
Duty Version Nil: Standard; H: Heavy Duty								

REFERENCE CURVES

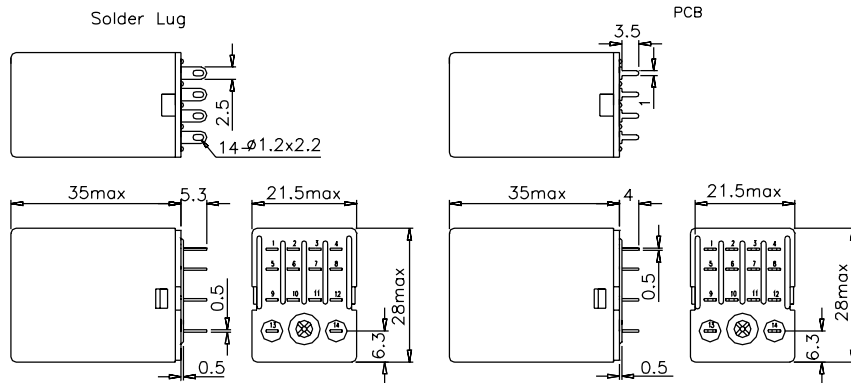


## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)

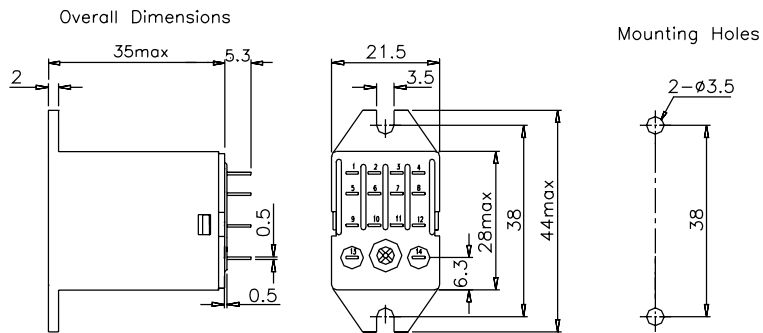
### Overall Dimensions, Solder Lug & PCB Version, 2 & 3 Form C



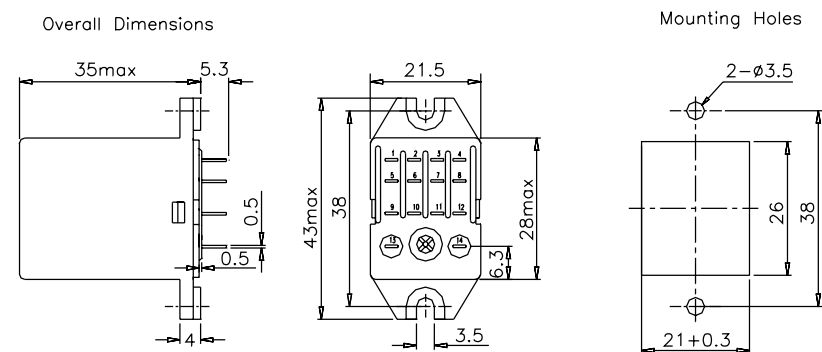
### Overall Dimensions, Solder Lug & PCB Version, 4 Form C



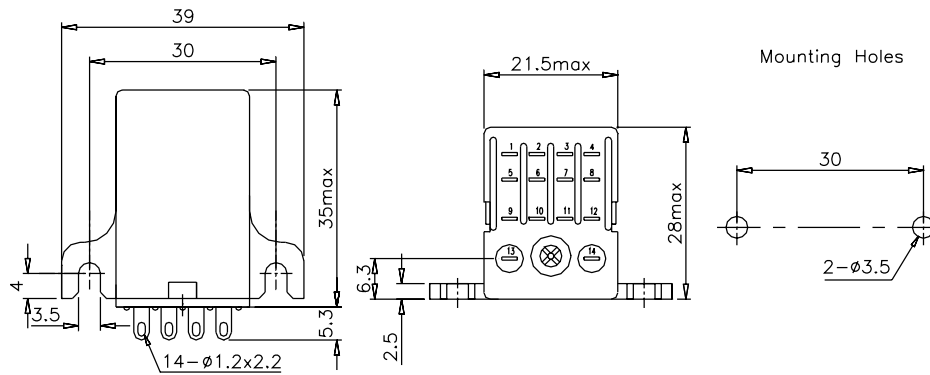
### Overall Dimensions and Mounting Holes, Top Flange Version



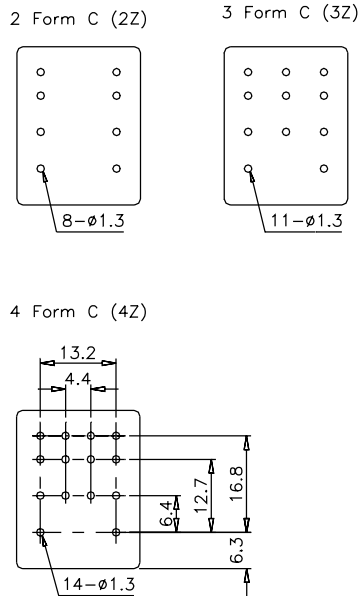
### Overall Dimensions and Mounting Holes, Bottom Flange Version



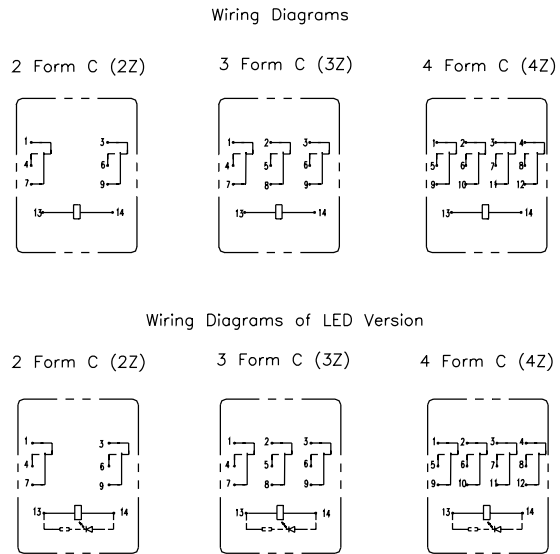
Overall Dimensions and Mounting Holes, Lateral Flange Version



Mounting Holes PCB Version (Bottom View)



Wiring Diagrams (Bottom View)



## NOTES

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