

## ● Features

- 20A switching capability
- 1 Form A, 1 Form B and 1 Form C configurations
- Standard PCB layout
- Plastic sealed and flux proofed types available
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Dimensions: 20.3 x 16.5 x 20.5 mm



## ● Application

- Smart Home Solution / Street Light Control / Home Appliance / Temperature Control / Industrial Control / Security System / Anti-Theft System, etc.

## ● Contact Data

Contact Arrangement	1A, 1B, 1C
Contact Material	Ag Alloy
Contact Rating	Resistive Load: 20A 125VAC 17A 277VAC 15A 250VAC TV-8 Motor Load: 1HP 250VAC
Max. Switching Power	5540VA
Max. Switching Voltage	277VAC
Max. Switching Current	20A
Contact Resistance	≤ 100mΩ
Electrical Endurance	5x10 <sup>4</sup>
Mechanical Endurance	1x10 <sup>7</sup>

## ● Coil Parameter (at 23°C)

Coil voltage (VDC)		Coil Resistance ( $\Omega \pm 15\%$ )	Pickup Voltage(max) (VDC)	Release Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
5	6.5	69	3.75	0.50	0.36
9	11.7	225	6.75	0.90	
12	15.6	400	9.00	1.20	
24	31.2	1600	18.0	2.40	
48	62.4	6400	36.0	4.80	

## ● Operation Condition

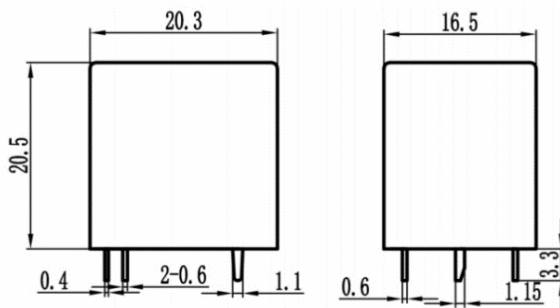
Insulation Resistance		100M $\Omega$ min (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC
	Between Contact and Coil	2000VAC
Shock Resistance	Functional	98m/s <sup>2</sup>
	Endurance	980m/s <sup>2</sup>
Vibration Resistance		10~55Hz double amplitude 1.5mm
Ambient Temperature		-40~105°C
Operate Time		$\leq 15$ ms
Release Time		$\leq 5$ ms
Relative Humidity		5%~85%
Weight		Approx. 12g

## ● Ordering Information

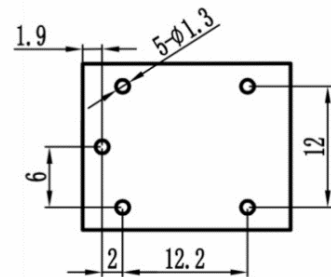
	GH	-12D	-C	-S	(2XX)
<b>Model</b>					
<b>Coil Voltage</b>	5, 6, 9, 12, 18, 24, 48VDC				
<b>Contact Arrangement</b>	A: 1 Form A    B: 1 Form B    C: 1 Form C				
<b>Construction</b>	Nil: Flux tight    S: Sealed				
<b>Special Code</b>	217: 17A    220: 20A    XXX: Customer special requirement				

## ● Dimensions (UNIT: mm)

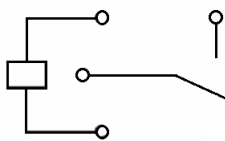
Outline Dimensions



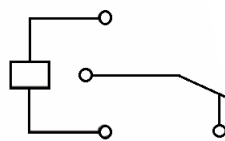
Mounting (Bottom views)



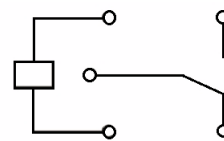
Wiring Diagram (Bottom views)



1 Form A

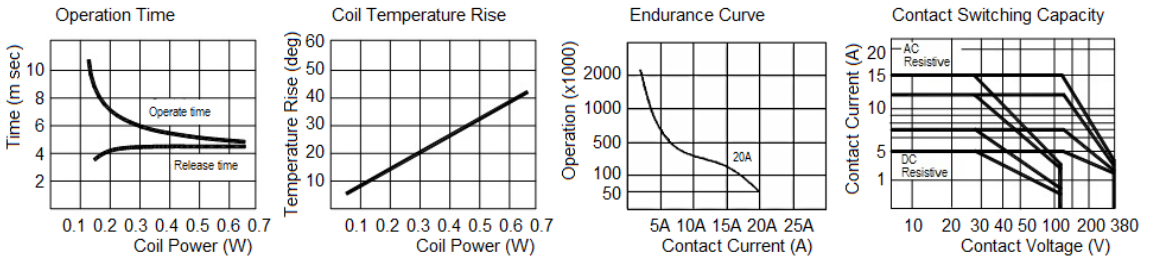


1 Form B



1 Form C

## ● Engineering Data



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $>1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $>5\text{mm}$ , tolerance should be  $\pm 0.5\text{mm}$ .

2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact IOEC for the technical service. However, it is the user's responsibility to determine which product should be used only.

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