

● Features

- 10A switching capability
- Creepage distance: 8mm (coil & contacts)
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Dimensions: 20.5 x 10.2 x 15.3 mm



● Application

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

● Contact Data

Contact Arrangement		1A, 1C
Contact Material		Ag Alloy
Contact Rating	1A	5A 250VAC / 30VDC 10A 125VAC
	1C	NO: 5A 250VAC / 30VDC, 10A 125VAC NC: 3A 250VAC / 30VDC
Max. Switching Power		1250VA / 150W
Max. Switching Voltage		250VAC / 30VDC
Max. Switching Current		10A
Contact Resistance		$\leq 100\text{m}\Omega$
Electrical Endurance		1×10^5
Mechanical Endurance		1×10^7

● Coil Parameter

Standard Type

Coil Voltage (VDC)		Coil Resistance ($\Omega \pm 10\%$)	Pickup Voltage(max) (VDC)	Release Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
5	6.5	63	3.75	0.25	0.40
6	7.8	90	4.50	0.30	
9	11.7	202	6.75	0.45	
12	15.6	360	9.00	0.60	
24	31.2	1440	18.0	1.20	

Sensitive Type (Only for 1 Form A)

Coil Voltage (VDC)		Coil Resistance ($\Omega \pm 10\%$)	Pickup Voltage(max) (VDC)	Release Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
5	6.5	125	3.75	0.25	0.20
6	7.8	180	4.50	0.30	
9	11.7	405	6.75	0.45	
12	15.6	720	9.00	0.60	
24	31.2	2800	18.0	1.20	

● Operation Condition

Insulation Resistance		1000M Ω min (at 500VDC)
Dielectric Strength	Between Contacts	1000V
	Between Contact and Coil	4000V
Shock resistance	Functional	98m/s ²
	Endurance	980m/s ²
Vibration Resistance		10~55Hz double amplitude 1.5mm

● Operation Condition

Ambient Temperature	-40 ~ +85℃
Operate Time	≤ 8ms
Release Time	≤ 5ms
Relative Humidity	5%~85%
Weight	Approx.7g

● Ordering Information

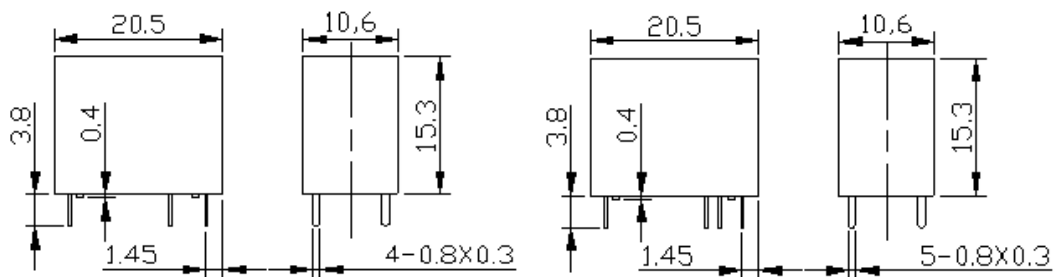
		GE	-12D	20	-A	F	- S	(XXX)
Model								
Coil Voltage	5, 6, 9, 12, 24 VDC							
Coil Power	Nil: Standard 20: 200mW (only for 1 Form A)							
Contact	A: 1 Form A							
Arrangement	C: 1 Form C							
Contact Material	Nil: AgSnO ₂ B: AgCdO F: AgNi							
Construction	Nil: Flux tight S: Sealed							
Special Code	Nil: Standard XXX: Customer special requirement							

● Dimensions (UNIT: mm)

1 Form A

1 Form C

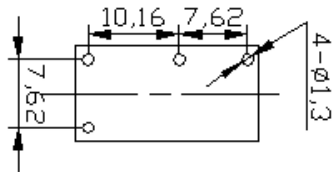
Outline Dimensions



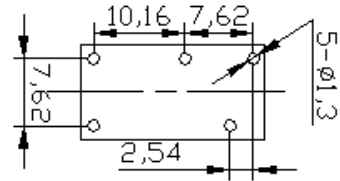
● Dimensions (UNIT: mm)

Mounting (Bottom views)

1 Form A

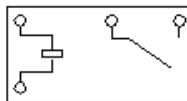


1 Form C

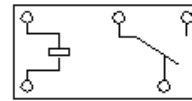


Wiring Diagram (Bottom views)

1 Form A

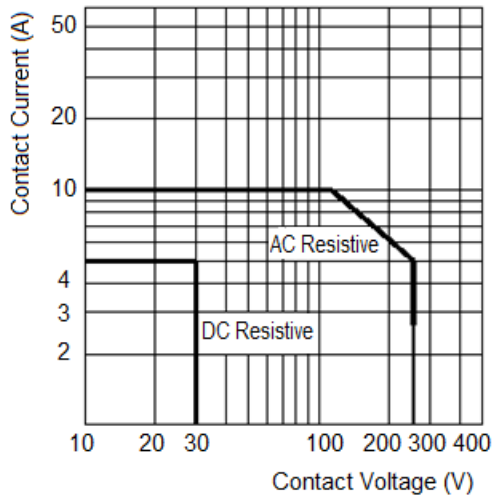


1 Form C

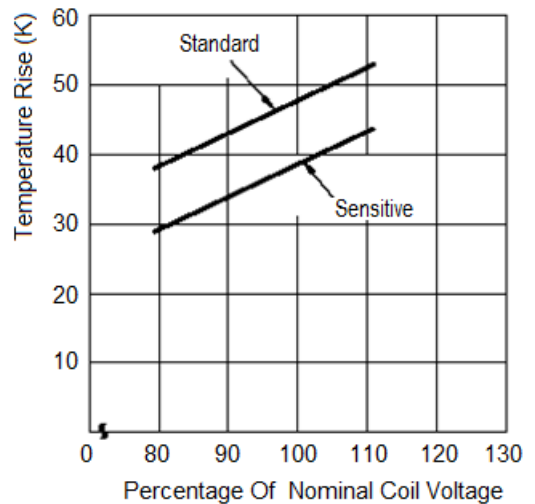


● Engineering Data

Maximum Switching Power



Coil Temperature Rise



Notes:

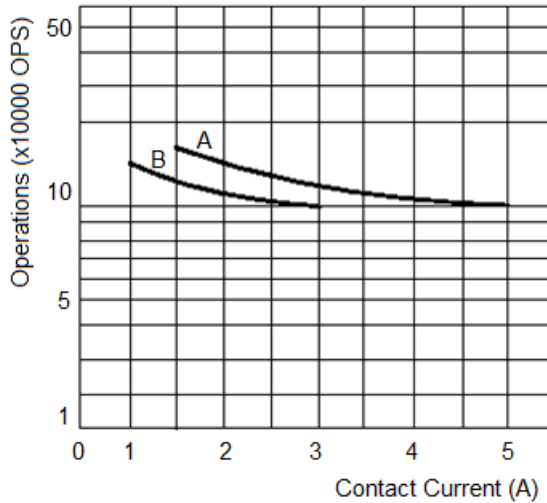
Standard: 5A at 70°C

Sensitive: 5A at 70°C

Mounting distance: 10mm

● Engineering Data

Endurance Curve



Notes:

1. Curve A: NO contact

Curve B: NC contact

2. Test conditions:

Curve A: NO, Resistive load, Room temp., flux proofed, 250VAC / 30VDC, 1s on 9s off

Curve B: NC, Resistive load, Room temp., flux proofed, 250VAC / 30VDC, 1s on 9s off