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General Relay I GNI

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Features

- High inrush: TV-5 80A (NO contact, at 125VAC)
- Low height: 15.7 mm
- Creepage distance: 10mm
- 5kV dielectric strength (between coil and contacts)
- Plastic sealed and flux proofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Dimensions: 29.0 x 12.7 x 15.7 mm





Application

 Household Electrical Appliance / Automation System / Electrical Equipment / Instrument / Meter / Telecommunication Facilities / Remote Control Facilities, etc.

Contact Data

Contact Arrangement	1A, 1C
Contact Material	Ag Alloy
Contact Rating	16A 250VAC
Inrush Rating (120VAC)	NO: TV-5 80A
	120A / 20ms
Max. Switching Power	4000VA
Max. Switching Voltage	440VAC
Max. Switching Current	16A
Contact Resistance	$\leq 100 m \Omega$
Electrical Endurance	7.5×10^4 (1 Form A type: 16A 250VAC, General use, Room temp., 1s on 9s off)
	2.5×10^4 (1 Form A type: TV-5 120AC, Room temp., 1s on 59s off)
Mechanical Endurance	1x10 ⁷

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Coil Voltage (VDC)		Coil Resistance	Pickup Voltage(max)	Release Voltage(min)	Coil Power Consumption			
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)			
5	7.5	62	3.50	0.5				
6	9.0	90	4.20	0.6				
9	13.5	202	6.30	0.9				
12	18.0	360	8.40	1.2				
18	27.0	810	12.6	1.8	0.40			
24	36.0	1440	16.8	2.4				
48	72.0	5760(1±15%)	33.6	4.8				
60	90.0	7500(1±15%)	42.0	6.0				
110	165.0	25200(1±15%)	77.0	11.0				

• Coil Parameter

Operation Condition

Insulation Resistance		1000MΩ min (at 500VDC)		
Dielectric	Between Coil and Contacts	5000VAC 1min		
Strength	Between Open Contacts	1000VAC 1min		
Surge Voltage (Between Coil & Contacts)		10kV (1.2 / 50µs)		
Shock	Functional	98m/s ²		
Resistance	Endurance	980m/s ²		
Temperature Rise (at Nomi. Volt.)		≦85K		
Vibration Resistance		10Hz to 150Hz 20g / 5g		
Ambient Temperature		-40 ~ +85℃		
Operate Time		≦15ms		
Release Time		≦8ms		
Relative Humidity		5%~85%		
Weight		Approx. 13.5g		

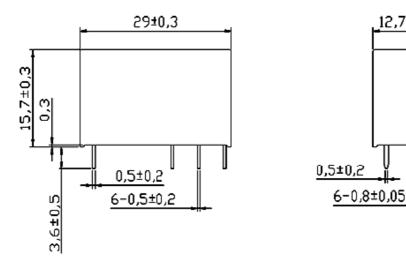
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12,7±0,3

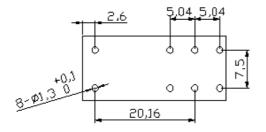
Ordering Information

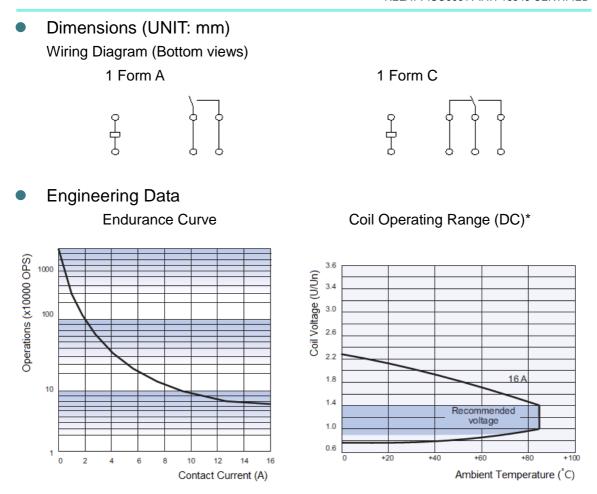
		GNI	-12D	-A	-S	(XXX)
Model						
Coil Voltage	5, 6, 9, 12, 18, 24, 48, 60, 110VDC					
Contact	At 1 Farm A Ct 1 Farm C					
Arrangement	A: 1 Form A C: 1 Form C					
Construction	Nil: Flux tight S: Sealed					
Special Code	Nil: Standard XXX: Customer spe	ecial rea	quiremer	nt		

 Dimensions (UNIT: mm) Outline Dimensions



Mounting (Bottom views)





Test conditions:

NO, 250VAC, Resistive load, Flux proofed, Room temp., 1s on 9s off.

Notes: *The use of a relay with an energizing voltage other than the rated coil voltage may lead to reduced electrical life. An energizing voltage over the above range may damage the insulation of relay coil.