

General Relay I GNA

RELAY / ISO9001 / IATF16949 CERTIFIED

`Features

- AC voltage coil type
- 16A switching capability
- 1 & 2 pole configurations
- 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 available
- 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, 1B, 1C	2A, 2B, 2C		
Contact Material	Ag Alloy			
Contact Rating	12A,16A 250VAC (resistive)	8A 250VAC (resistive)		
Max. Switching Power	12A:3000VA 16A:4000VA	2000VA		
Max. Switching Voltage	440VAC			
Max. Switching Current	12A / 16A	8A		
Contact Resistance	≦100mΩ (at 1A 6VDC)			
Electrical Endurance	5x10 ⁴ (1 Form A type, 16A 250VAC, Resistive load, Room temp., 1s on 9s off) (2 Form A type, 8A 250VAC, Resistive load, Room temp., 1s on 9s off)			
Mechanical Endurance	1x10 ⁵			

Coil Parameter (at 23[°]C)

Standard Type

Coil	Coil	Coil	Pickup	Release	Coil Power	
Voltage	Current	Resistance	Voltage(max)	Voltage(min)	Consumption	
(VAC)	(mA)	(Ω±10%)	(VAC)	(VAC)	(VA)	
24	31.6	350	18.0	3.6		
115	6.6	8100(1±15%)	86.3	17.3	0.75	
230	3.2	32500(1±15%)	172.5	34.5		

Operation Condition

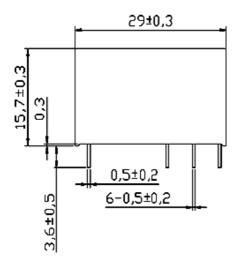
Insulation Resistance		1000MΩ min (at 500VDC)		
Dielectric	Between Coil and Contacts	5000VAC 1min		
Strength	Between Open Contacts	1000VAC 1min		
	Between Contact Sets	2500VAC 1min		
Shock	Functional	98m/s ²		
Resistance	Endurance	980m/s²		
Temperature Rise (at nomi. volt.)		≦85K		
Vibration Resistance		10Hz to 150Hz 10g / 5g		
Ambient Temperature		-40 ~ +70°C		
Relative Humidity		5%~85%		
Weight		Approx. 13.5g		

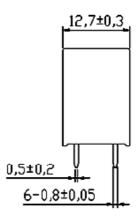
Ordering Information

Graeinig iiii								
		GNA	S	-115A	-A	16	-S	(XXX)
Model								
Version(See Wiring	Nil : 5.0mm S :	O 5 mm						
Diagram Below)	NII. 5.0IIIII 5 .	3.5mm						
Coil Voltage	24, 115, 230VAC							
Contact	A : 1 Form A B : 1 Form B C : 1 Form C							
Arrangement	2A : 2 Form A 2B : 2 Form B 2C : 2 Form C							
8: 8A (8A only for 2 pole 5mm)								
Contact Current	Contact Current 12: 12A (only for 1 pole 3.5mm or 1 pole 5mm) 16: 16A (only for 1 pole 5mm, double pinnig)							
Construction	Nil: Flux tight S: Sealed							
Special Code	Nil: Standard	Standard XXX: Customer special requirement						

€ In&Out

Dimensions (UNIT: mm) Outline Dimensions





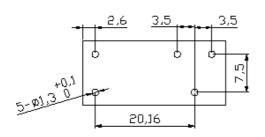


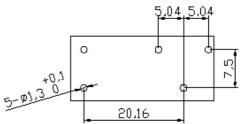
Dimensions (UNIT: mm)

Mounting (Bottom views)

GNAS 3.5mm 1Pole 12A

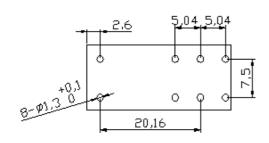
GNA 5mm 1Pole 12A

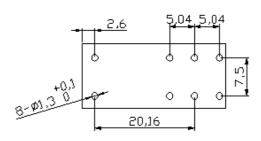




GNA 5mm 1Pole 16A

GNA 5mm 2Pole 8A





Wiring Diagram (Bottom views)

GNAS 3.5mm / GNA 5mm, 1Pole 12A

1 Form A

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1 Form B

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1 Form C

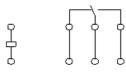


GNA 5mm 1Pole 16A

1 Form A

1 Form B

1 Form C



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Dimensions (UNIT: mm)

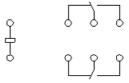
Wiring Diagram (Bottom views)

GNA 5mm 2Pole 8A

2 Form A

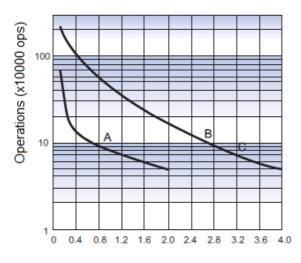
2 Form B

2 Form C



Engineering Data

Endurance Curve



Breaking capacity (kVA)

Notes:

1) Curve A: 2 Form A type (2Pole, 8A)

Curve B: 1 Form A type (1 pole, 12A)

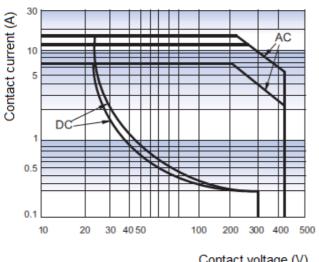
Curve C: 1 Form A type (1 pole, 16A)

2) Test conditions:

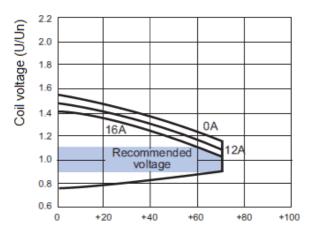
NO, 250VAC, Resistive load, Flux proofed, Room temp., 1s on 9s off.

Engineering Data

Maximum Switching Power



Contact voltage (V)



Coil Operating Range (AC) *

Ambient temperature (°C)

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.

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≦5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.5mm.

2) The tolerance without indicating for PCB layout is always ± 0.1 mm.



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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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