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General Relay I GI

RELAY / ISO9001 / IATF16949 CERTIFIED

Features

- 10A switching capability
- Low height: 12.5 mm
- 5kV dielectric strength (between coil and contacts)
- Creepage distance >8mm
- UL insulation system: Class F available
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Dimensions: 28.5 x 10.1 x 12.5 mm





Application

Home Appliances / Smart Home Solution / Temperature Control, etc.

Contact Data

Contact Arrangement	1A, 1B, 1C
Contact Material	Ag Alloy
Contact Rating	10A 250VAC / 30VDC
Max. Switching Power	2500VA / 300W
Max. Switching Voltage	440VAC / 125VDC
Max. Switching Current	10A
Contact Resistance	\leq 100m Ω
Electrical Endurance	1x10 ⁵
Mechanical Endurance	1x10 ⁷

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Coll Parameter (at 23°C)							
Coil voltage (VDC)		Coil resistance	Pickup voltage(max)	Release voltage(min)	Coil power consumptior		
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)		
5	7.5	113	3.50	0.50			
6	9.0	164	4.20	0.60			
9	13.5	360	6.30	0.90	Approx.		
12	18.0	620	8.40	1.20	0.22W		
18	27.0	1295	12.60	1.80	to 0.29W		
24	36.0	2350(1±15%)	16.80	2.40			
48	72.0	8000(1±15%)	33.60	4.80			
60	90.0	12500(1±15%)	42.00	6.00			

■ Coil Parameter (at 23°C)

Operation Condition

Insulation resi	stance	1000MΩ min (at 500VDC)			
Dielectric	Between contacts	1000V			
strength	Between contact and coil	5000V			
Surge voltage	(between coil and contacts)	10kV (1.2 / 50μs)			
Shock	Functional	NC: 49m/s ²			
resistance	runcional	NO: 98m/s ²			
	Endurance	980m/s ²			
Vibration	NC (no coil voltage)	10~55Hz double amplitude 0.8mm			
resistance	NO	10~55Hz double amplitude 1.65mm			
Ambient temperature		-40~85 ℃			
Operate time		≦10ms			
Release time		≦5ms			
Relative Humidity		5%~85%			
Weight		Approx. 8g			

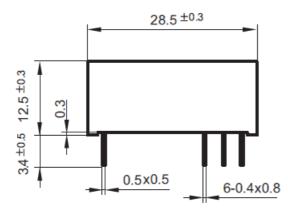
General Relay I GI

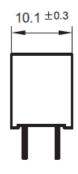
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Ordering Information									
		GI	S	-12D	-A	F	1	- S	(XXX)
Model									
Version(See Wiring Diagram Below)	S: 1 Form (Double		J						
Coil Voltage	5, 6, 9, 12, 18, 24, 48, 60 VDC								
Contact	A: 1 Form A B: 1 Form B								
Arrangement	C: 1 Form C								
Contact Material	Nil: AgSnO2 F: AgNi								
Contact Plating	Nil: No gold	d plated	d 1:G	old plat	ed				
Construction	Nil: Flux tig	ht S:	Sealed	I					
Special Code	Nil: Standa	rd XX	X: Cus	stomer s	special	require	ement		

Dimensions (UNIT: mm)
Outline Dimensions

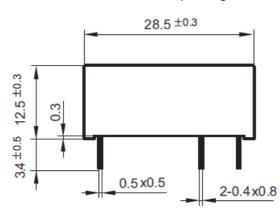
3.2mm pinning for 1 Form C





Dimensions (UNIT: mm)
Outline Dimensions

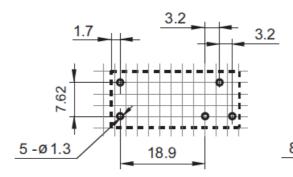
5mm pinning for 1 Form A and 1 Form B

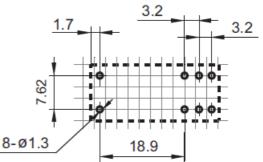


Mounting (Bottom views)

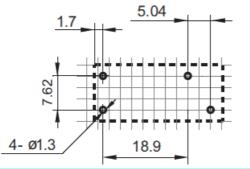
3.2mm pinning for 1 Form C

3.2mm, double pinning for 1 Form C





5mm pinning for 1 Form A and 1 Form B



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- Dimensions (UNIT: mm) Wiring Diagram (Bottom views) 3.2mm pinning for 1 Form C
 3.2mm, double pinning for 1 Form C
 5mm pinning for 1 Form A
 5mm pinning for 1 Form A
 5mm pinning for 1 Form A
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.5mm.
 - 2) The tolerance without indicating for PCB layout is always ±0.1mm.

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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