

Features

- 20A switching capability
- 1 Form A configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Dimensions: 18.2 x 10.2 x 15.5 mm





Application

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

Contact Data (at 23[°]C)

Contact Arrangement	1A)
Contact Material	Ag Alloy
Contact Rating	10A 250VAC / 18A 277VAC / <mark>20A 250VAC</mark>
Max. Switching Power	5540VA / 600W
Max. Switching Voltage	277VAC / 30VDC
Max. Switching Current	20A
Contact Resistance	≤100mΩ (6VDC 1A)
Electrical Endurance	1x10 ⁵
Mechanical Endurance	1x10 ⁷

Coil Parameter

Standard Type

Coil Voltage (VDC)		Coil Resistance	Pickup Voltage(max)	Release Voltage(min)	Coil Power Consumption	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)	
3	3.9	20	2.25	0.15		
5	6.5	56	3.75	0.25		
6	7.8	80	4.50	0.30		
9	11.7	180	6.75	0.45	0.45	
12	15.6	320	9.00	0.60		
18	23.4	720	13.5	0.90		
24	31.2	1280	18.0	1.20		
48	62.4	5120	36.0	2.40		

Sensitive Type

Coil Voltage (VDC)		Coil Resistance	Pickup Voltage(max)	Release Voltage(min)	Coil Power Consumption	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)	
3	4.5	45	2.25	0.15		
5	7.5	125	3.75	0.25		
6	9.0	180	4.50	0.30		
9	13.5	405	6.75	0.45	0.20	
12	18.0	720	9.00	0.60		
18	27.0	1620	13.5	0.90		
24	36.0	2880	18.0	1.20		
48	72.0	11520	36.0	2.40		

Operation Condition

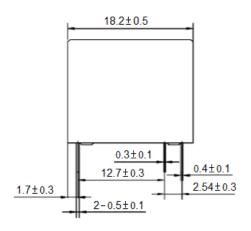
Insulation Resistance		1000MΩ min (at 500VDC)				
Dielectric	Between Contacts	1500V				
Strength	Between Contact and Coil	4000V				
Shock	Functional	98m/s ²				
Resistance	Endurance	980m/s ²				
Vibration Resistance		10~55Hz double amplitude 1.5mm				
Ambient Temperature		-40 ~ +85°C				
Operate Time		≦10ms				
Release Time		≦10ms				
Relative Humidity		5%~85%				
Weight		Approx. 6g				

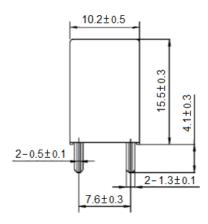
Ordering Information

Oracinig iiii	011110411011							
		GC	-12VDC	-A	45	- S	16	(XX
Model								
Coil Voltage	3, <mark>5,</mark> 6, 9, 12, 1	8, 24, 4	8 VDC					
Contact	A. 1 Form A							
Arrangement	A: 1 Form A							
Coil Power	45 : 450mW 2	0 : 200n	nW (only fo	or 1 Fo	orm A)			
Construction	Nil: Flux tight S: Sealed							
Contact Current	16 : 16A 20 : 2	0A						
Special Code	Nil: Standard XXX: Customer special requirement							

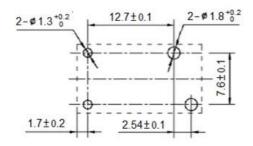
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Dimensions (UNIT: mm) Outline Dimensions

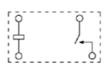




Mounting (Bottom views)

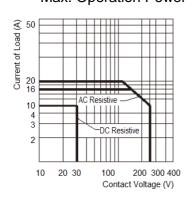


Wiring Diagram (Bottom views)

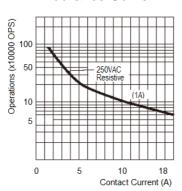


Engineering Data

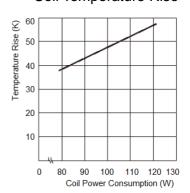
Max. Operation Power



Endurance Curve



Coil Temperature Rise



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm;



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- 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 ± 0.1 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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