

Air Conditioner Relay I CE RELAY / ISO9001 / IATF16949 CERTIFIED

Features

- Contact gap: 1.5 mm (.059 inch) Compliant with European photovoltaic standard (IEC62109* and VDE0126**).
- 25A switching capability
- Heavy load up to 5000VA
- 4.5kV dielectric strength (between coil and contacts)
- Ideal for motor switching
- PCB & QC layouts available
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Dimensions: 30.5 x 16.0 x 23.4 mm

30.5 x 16.0 x 26.6 mm (PCB) 30.5 x 16.0 x 30.1 mm (Bracket)



Application

Home Appliances / A/C Control / Refrigerator / Electronic Water Heater, etc.

Contact Data

Contact Arrangement	1A		
Contact Material	Ag Alloy		
	25A 277VAC (resistive)		
Contact Rating	1.5HP 125VAC		
	1.5HP 250VAC		
	TV-10 120VAC		
	inrush current: 80A 250VAC (COS θ =0.7)		
Max. Switching Power	6925VA		
Max. Switching Voltage	300VAC		
Max. Switching Current	25A		
Contact Resistance	≤100mΩ		

Contact Data

Electrical Endurance	1x10 ⁵
Mechanical Endurance	1x10 ⁷

Coil Parameter (at 23[°]C)

	Coil Voltage (VDC)		Pickup Voltage(max)	Release Voltage(max)	Coil Power Consumption	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)	
3	3.9	10	2.25	0.3		
5	6.5	28	3.75	0.5		
6	7.8	40	4.50	0.6	0.90	
9	11.7	90	6.75	0.9	0.90	
12	15.6	160	9.00	1.2		
24	31.2	640	18.0	2.4		
48	62.4	2560(1±15%)	36.0	4.8		

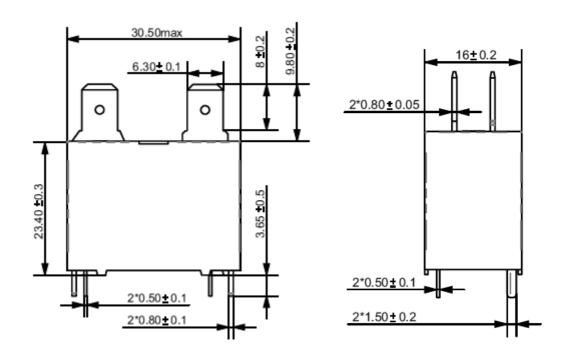
Operation Condition

Insulation Resistance		1000MΩ min (at 500VDC)			
Dielectric	Between Contacts	1500VAC 1min			
Strength	Between Contact and Coil	4500VAC 1min			
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		≦20ms			
Release Time		≦10ms			
Relative Humidity		5%~85%			
Weight		Approx. 28g			

Ordering Information

Oracining init	omation							
			CE	-12VDC	-A	-25	-P	(XXX)
Model								
Coil Voltage	3, 5, 6, 9, 12, 24, 48VDC							
Contact	A. 4 Farm A							
Arrangement	A: 1 Form A							
Contact Current	25 : 25A							
	Blank: PCB ar	nd Quick	conne	ct type				
Structure	P: PCB type							
	B: Bracket cover							
Special Code	Nil: Standard	XXX: Cu	ustome	er special	require	ment		

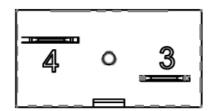
Dimensions (UNIT: mm)Outline DimensionsStandard type



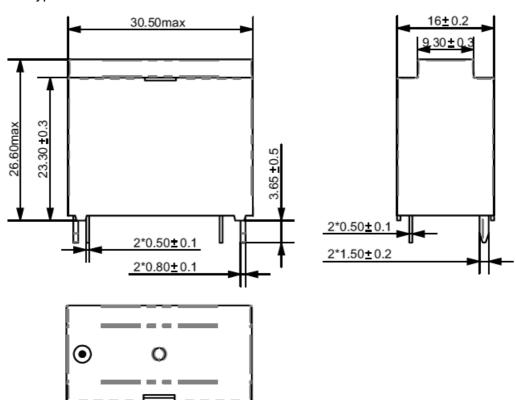
Dimensions (UNIT: mm)

Outline Dimensions

Standard type



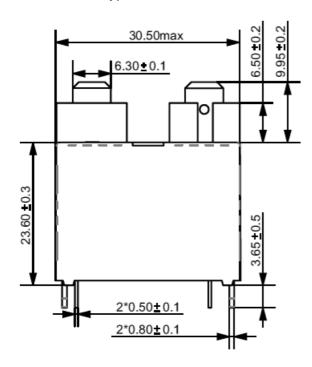
PCB type

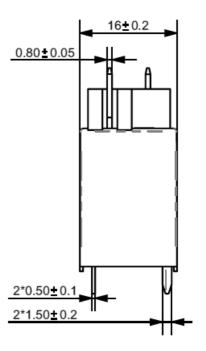


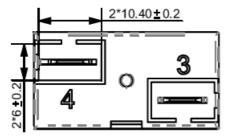
Dimensions (UNIT: mm)

Outline Dimensions

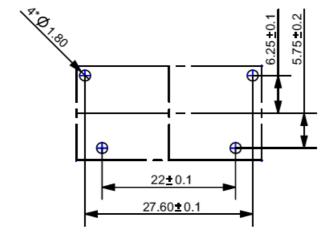
Bracket cover type



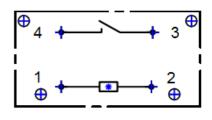




Dimensions (UNIT: mm) Mounting (Bottom views)

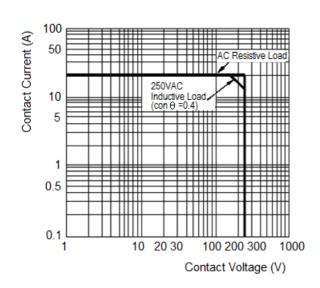


Wiring Diagram (Bottom views)

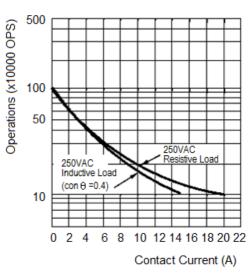


Engineering Data

Maximum Switching Power



Endurance Curve



Test Conditions: Room temp., 1s on 9s off.

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 ± 0.1 mm.

Note:

- * Safety standard of PV power inverter
- **German safety standard of PV power inverter
- ***Due to addition of altitude stipulation (2,000 m 6,561.68 ft or more) to IEC62109.

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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