Features

- 25A switching capability
- Heavy load up to 6925VA
- 4.5kV dielectric strength (between coil and contacts)
- PCB & QC layouts available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Dimensions: 30.4 x 16.0 x 23.3 mm (PCB & QC)
  30.4 x 16.0 x 29.8 mm (Bracket)

Application

- Home Appliances / Ideal for motor switching / A/C Control / Refrigerator / Electronic Water Heater, etc.

Contact Data

Contact Arrangement	1A
Contact Material	Ag Alloy
Contact Rating (Resistive Load)	25A 277VAC 1.5HP 125VAC 1.5HP 250VAC TV-10 120VAC inrush current: 80A 250VAC (COS θ =0.7)
Max. Switching Power	6925VA
Max. Switching Voltage	277VAC
Max. Switching Current	25A (resistive)
Contact Resistance	≦100mΩ (at 1A 6VDC)
Electrical Endurance	$1x10^5$ (25A 250VAC, Resistive load, Room temp., 1s on 9s off)
Mechanical Endurance	$2x10^6$

Note: 1) The data shown above are initial values.

Coil Parameter (at 23℃)

Coil Voltage (VDC)		Coil Resistance (Ω±10%)	Pickup Voltage(max) (VDC)	Release Voltage(max) (VDC)	Coil Power Consumption (W)
Rated	Max.				
3	3.6	10	2.25	0.3	0.90
5	6.0	28	3.75	0.5	
6	7.2	40	4.50	0.6	
9	10.8	90	6.75	0.9	
12	14.4	160	9.00	1.2	
24	28.8	640	18.0	2.4	
48	57.6	2560(1±15%)	36.0	4.8	

Note: 1) The data shown above are initial values.
2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

Operation Condition

Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC 1min
	Between Contact and Coil	4500VAC 1min
Shock Resistance	Functional	198m/s^2
	Endurance	980m/s^2
Vibration Resistance		10~55Hz double amplitude 1.5mm
Ambient Temperature		-40 ~ +85℃
Operate Time		≦20ms
Release Time		≦10ms
Relative Humidity		5%~85%
Weight		Approx. 28g

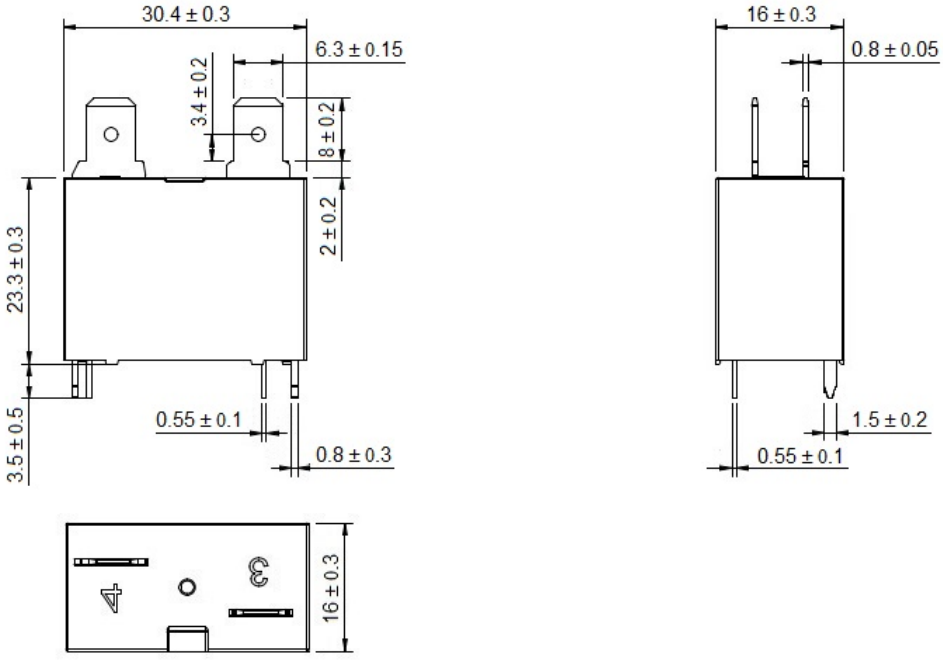
Ordering Information

		CE	L	-12D	-A	-S	(XXX)
Model							
Structure	**A**: PCB and Quick connect type **L**: PCB type **B**: Bracket cover						
Coil Voltage	3, 5, 6, 9, 12, 24, 48VDC						
Contact Arrangement	**A**: 1 Form A						
Construction	**Nil**: Flux tight **S**: Sealed						
Special Code	**Nil**: Standard **XXX**: Customer special requirement						

Dimensions (UNIT: mm)

Outline Dimensions

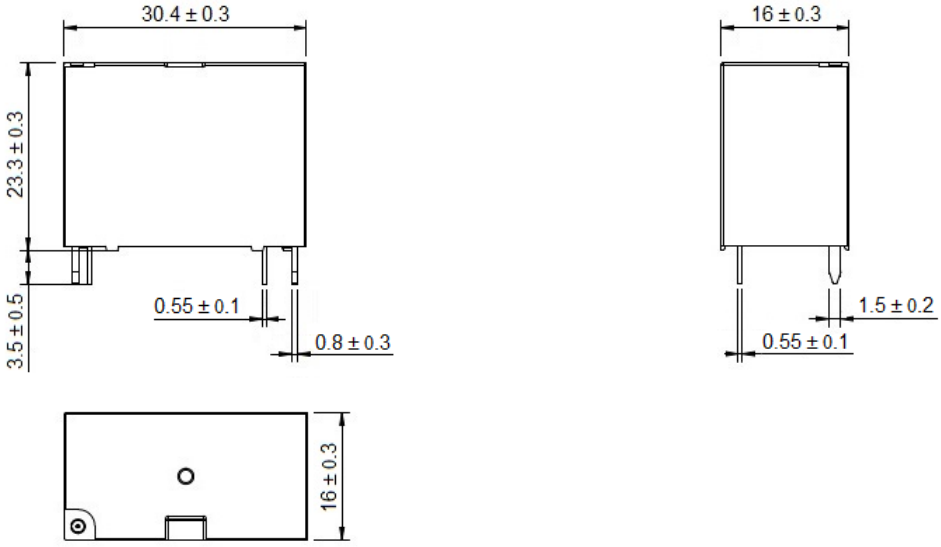
Standard type: CEA type



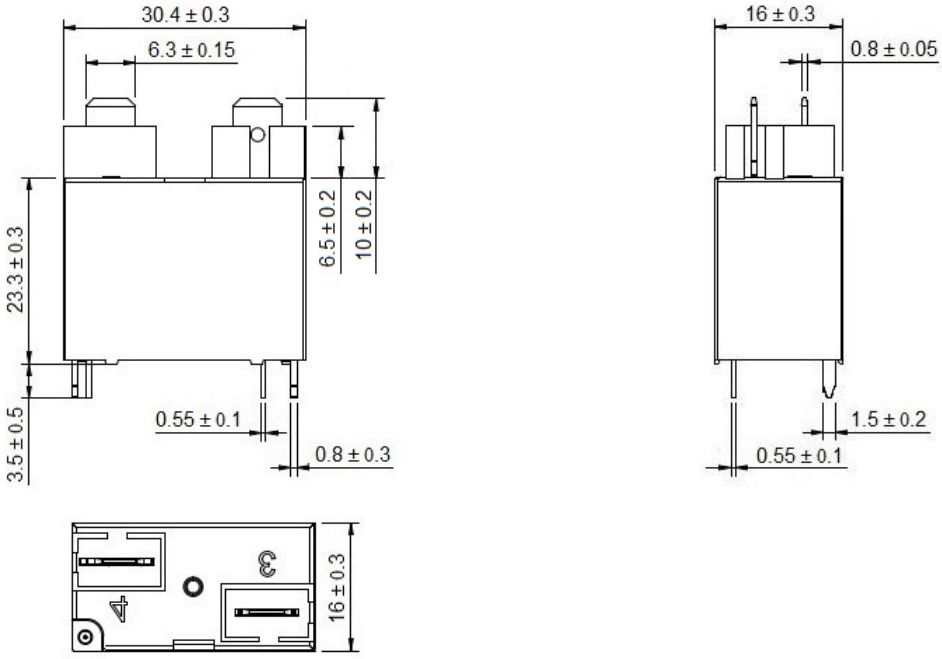
Dimensions (UNIT: mm)

Outline Dimensions

PCB type: CEL type

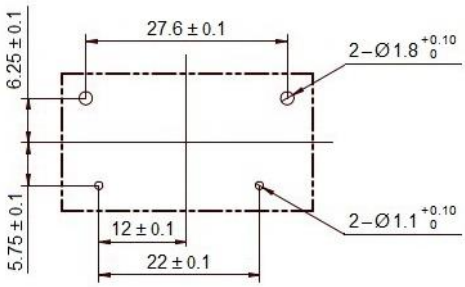


Bracket cover type: CEB type

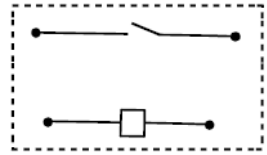


Dimensions (UNIT: mm)

Mounting (Bottom views)



Wiring Diagram (Bottom views)



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 ±0.1mm.

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.