I O E C



Features

- 30A switching capability
- 2.5kV dielectric strength (between coil and contacts)
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Dimensions: 50.6 x 33.4 x 47.0 mm (CK / CKP type) 68.0 x 33.4 x 47.0 mm (CKF type)



Application

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

Contact Data

Contact Arrangement	1A 2A			
Contact Material	Ag Alloy			
	Resistive load:	Resistive load:		
Contact Rating	30A 277VAC	25A 277VAC		
	30A 28VDC	25A 28VDC		
Max. Switching Power	8310VA 6925VA			
Max. Switching Voltage	277VAC			
Max. Switching Current	30A 25A			
Contact Resistance	≦100mΩ (6VDC, 1mA)			
Electrical Endurance	1x10 ⁵			
Mechanical Endurance	1x10 ⁷			

Coil Parameter (at 23[°]C)

Coil Voltage		Coil	Pickup	Release	Coil Power
(VDC)		Resistance	Voltage(max)	oltage(max) Voltage(max)	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)
6	6.6	18.0	4.50	0.60	2
9	9.9	40.5	6.75	0.90	2

Coil Parameter (at 23[°]C)

Coil Voltage		Coil	Pickup	Release	Coil Power
(VDC)		Resistance	Voltage(max)	Voltage(max)	Consumption
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)
12	13.2	77.0	9.00	1.20	
24	26.4	288.0	18.00	2.40	2
36	39.6	648.0	27.00	3.60	2
48	52.8	1152.0	36.00	4.80	
110	121.0	6050.0	82.50	11.00	

Coil Voltage (VAC)		Coil Resistance	Pickup Voltage(max)	Release Voltage(max)	Coil Power Consumption
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(VA)
6	6.6	14.0	4.50	0.60	
12	13.2	55.8	9.00	1.20	
24	26.4	223.0	18.00	2.40	2
36	39.6	502.0	27.00	3.60	2
48	52.8	899.0	36.00	4.80	
110	121.0	4840.0	82.50	11.00	
220	242.0	18740.0	165.00	22.00	
240	264.0	22302.0	180.00	24.00	

Operation Condition

Shock Resistance	Functional Endurance	98m/s ² 980m/s ²		
Shock				
Strength Between Contact and Coil		2500VAC 1min		
Dielectric	Between Contacts	1500VAC 1min		
Insulation Resistance		1000MΩ min (at 500VDC)		

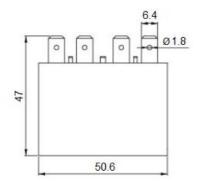
Operation Condition

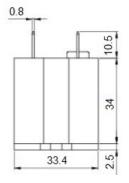
Ambient Temperature	-40 ~ +70°C (no freezing)
Operate Time	≦25ms
Release Time	≦15ms
Relative Humidity	20%~85%
Weight	Approx. 120g

Ordering Information

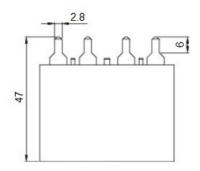
		СК	F	-12D	-A	(XXX)
Model						
Structure	Blank: Quick connect type P: PCB type F: Flange and quick connect type					
Coil Voltage	6D~110D : 6VDC to 110VDC 6A~240A : 6VAC to 240VAC					
Contact Arrangement	A: 1 Form A 2A: 2 Form A					
Special Code	Nil: Standard XXX: Customer	special	requir	ement		

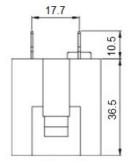
Dimensions (UNIT: mm) Outline Dimensions CK type



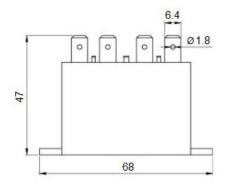


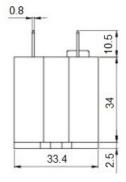
Dimensions (UNIT: mm) Outline Dimensions CKP type





CKF type

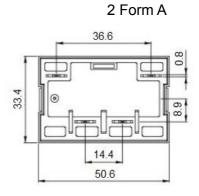




Mounting (Bottom views)

CK type 1 Form A

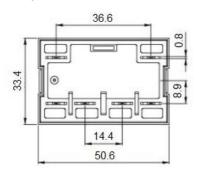
50.6



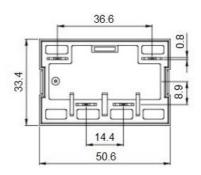
Dimensions (UNIT: mm)

Mounting (Bottom views)

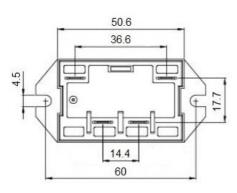
CKP type 1 Form A



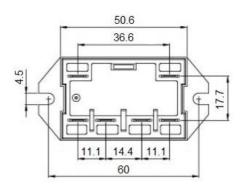
2 Form A

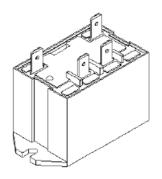


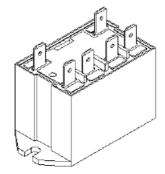
CKF type 1 Form A



2 Form A

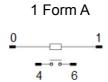


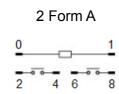




Dimensions (UNIT: mm)

Wiring Diagram (Bottom views)





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.

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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