CJX4-kd Capacitor Switching Contactors

Application

CJX4-kd series of capacitor switching contactor is mainly used in a circuit of AC 50Hz or 60Hz, rated insulation voltage up to 690V and rated operating current up to 87A under rated operating voltage 400V and AC-6b. It is used to switch power capacitors which are used for reactive current compensation. Special series resistors and auxiliary contacts, integrated in the capacitor contactor, reduce the high inrush current of the capacitor which would otherwise flow. This reduced inrush current guarantees a high contactor and capacitor life time.

General

Electric Ratings: AC 50/60Hz, 400V, 87A
Utilization Category: AC-6b
Certificates: CE and CCC
Standards: IEC60947-4-1 and GB14048

Features

- Finger-safe terminals.
- Auxiliary switch block snapped onto the capacitor contactor.
- Contains three leading NO contacts and two/ three auxiliary contacts.
- Designed to snap onto DIN rail or mount directly to a panel with screws.
- Modular design allows accessories and function modules to snap together.

Operating Conditions

Maximum Altitude: not exceed 2000m.

Permitted Ambient Temperature Range: -5℃ to +40℃ at relative humidity or 50% or less. Higher relative humidity is permissible at lower temperature. For example, RH could be 90% at +20℃.

Ordering Information

Typical Part No. → CJ X 4 - 25 11 k d B7 □

1. Contactor

2. Minitype

3. Design Sequence Number

4. Conventional Thermal Current Code:
   25=25A 32=32A 40=40A
   50=50A 60=60A 80=80A 125=125A

5. No. of Contacts:
   20: 3 NO main contacts+2 NO auxiliary contacts（25-40A models only)
   02: 3 NO main contacts+2 NC auxiliary contacts（25-40A models only)
   11: 3 NO main contacts+1 NO 1NC auxiliary contact（25-40A models only)
   21: 3 NO main contacts+2 NO 1NC auxiliary contact（50-125A models only)
   12: 3 NO main contacts+1 NO 2NC auxiliary contact（50-125A models only)

6. Capacitor Switching Type

7. Remolded Structure Code

8. Coil Voltage:
   B7=24V C7=36V E7=48V
   F7=110V-120V M7= 220V-240V Q=380V-415V

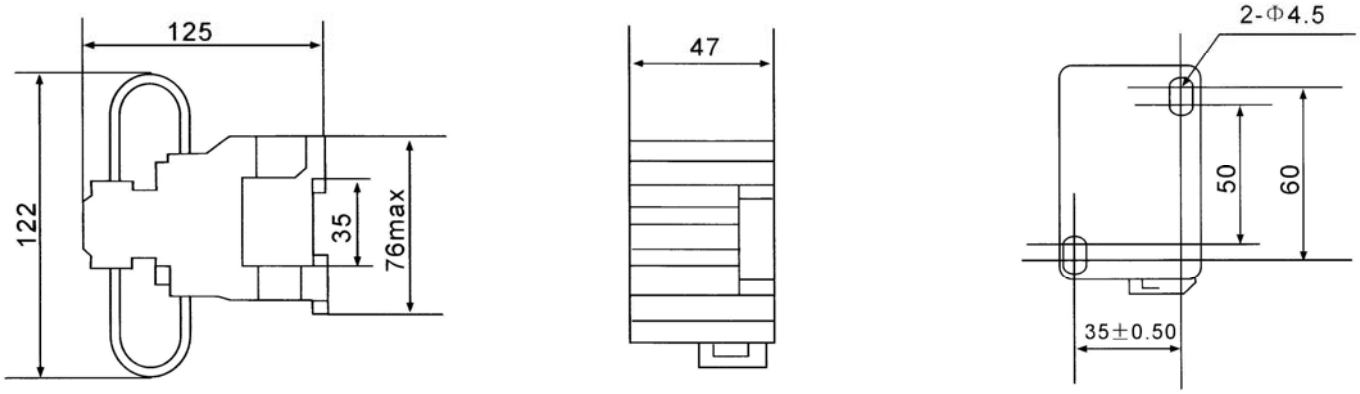
9. Special Product Code:
   TH: humid tropics product

Technical Parameter

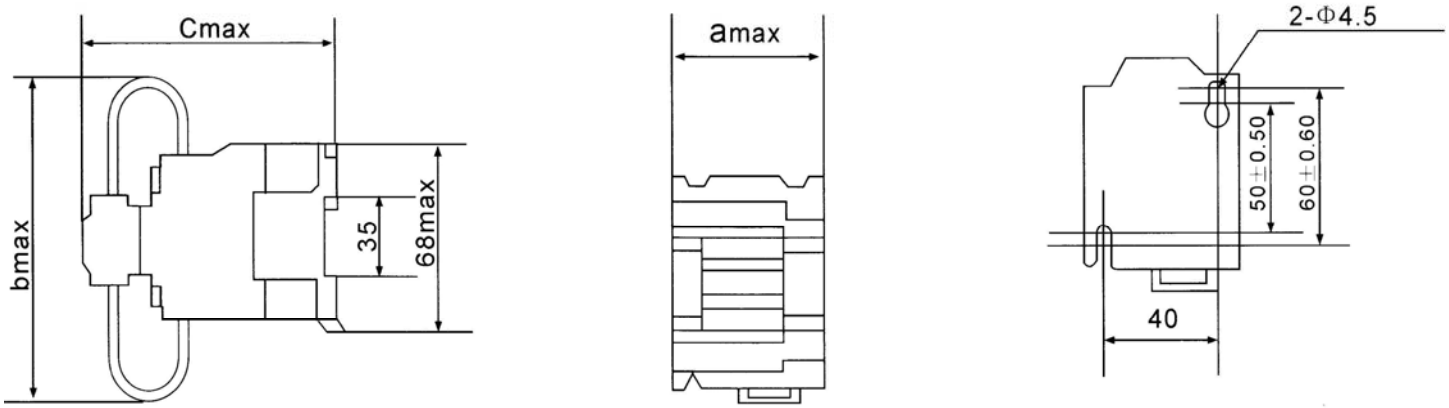
Item \ Type			CJX4-25kd		CJX4-32kd		CJX4-40kd		CJX4-50kd		CJX4-60kd		CJX4-80kd		CJX4-125kd	
Conventional Thermal Current A			25		32		40		50		60		80		125	
Rated Operating Current A AC-6b 400V			18		24		29		36		48		58		87	
Capacitor Rating at Rated Power AC-6b Kvar	200-240V		6.7		8.5		10		15		20		25		40	
	400-440V		12.5		16.7		20		25		33.3		40		60	
Rated Insulation Voltage V			690		690		690		690		690		690		690	
Inrush Current Limiting Capacity			15N		15N		15N		15N		15N		15N		15N	
Electrical Life			120, 000		120, 000		100, 000		100, 000		100, 000		100, 000		100, 000	
Mechanical Life			3, 000, 000		3, 000, 000		3, 000, 000		3, 000, 000		3, 000, 000		3, 000, 000		3, 000, 000	
Operating Frequency h-1			300		300		300		300		120		120		120	
Auxiliary Contact	Conventional Thermal Current A		10		10		10		10		10		10		10	
	Electrical Life	AC-15 360VA	120, 000		120, 000		120, 000		120, 000		120, 000		120, 000		120, 000	
		DC-13 33W	120, 000		120, 000		120, 000		120, 000		120, 000		120, 000		120, 000	
	Minimum Load		24V 10mA		24V 10mA		24V 10mA		24V 10mA		24V 10mA		24V 10mA		24V 10mA	
Coil	Coil Power VA	Pick-Up	76		110		110		230		230		230		230	
		Release	10		11		11		32		32		32		32	
	Pull-in Time mS		12-22		15-24		15-24		20-26		20-26		20-26		20-35	
	Release Time mS		4-12		5-19		5-19		8-12		8-12		8-12		6-20	
	Control Voltage Us V		24-415		24-415		24-415		24-415		24-415		24-415		24-415	
	Must-Operate Voltage		0.85-1.1Us		0.85-1.1Us		0.85-1.1Us		0.85-1.1Us		0.85-1.1Us		0.85-1.1Us		0.85-1.1Us	
	Must-Release Voltage		0.2-0.7Us		0.2-0.7Us		0.2-0.7Us		0.2-0.7Us		0.2-0.7Us		0.2-0.7Us		0.2-0.7Us	
Terminal	Number of Wire		1	2	1	2	1	2	1	2	1	2	1	2	1	2
	Soft Wire mm2		4	4	4	4	6	6	16	16	16	16	16	16	50	25
	Hard Wire mm2		6	-	6	-	10	10	25	-	25	-	25	-	50	-

Overall and Mounting Dimensions

CJX4-25kd

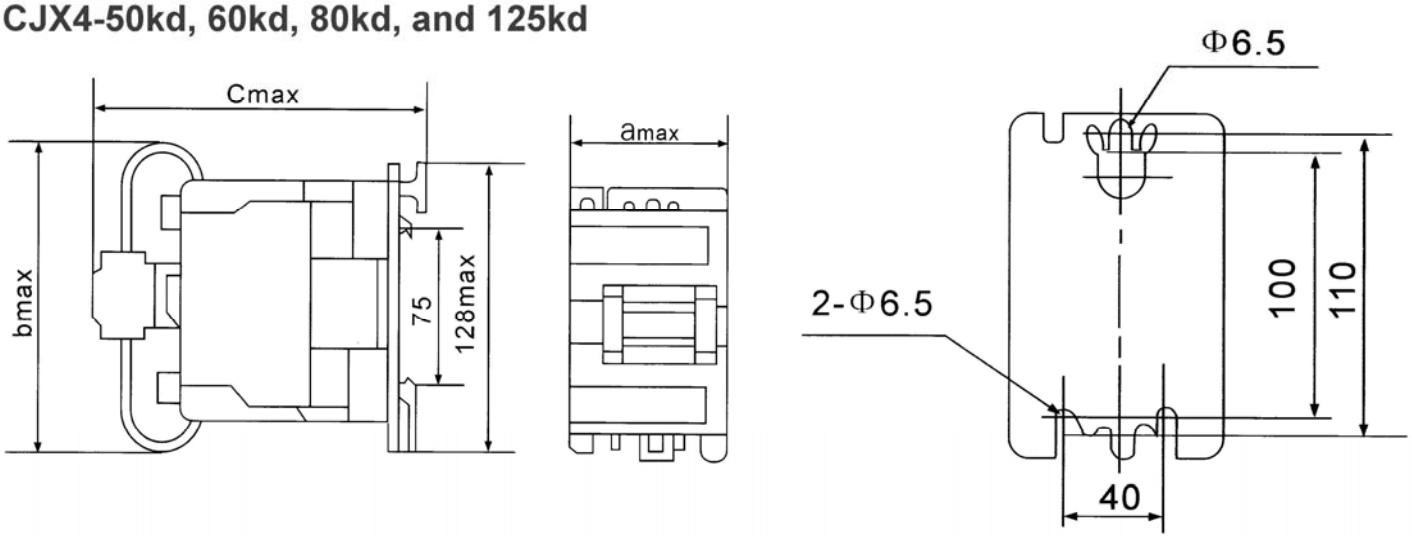


CJX4-32kd, 40kd



Model Number	a max	b max	c max
CJX4-32kd	58	130	135
CJX4-40kd	59	136	140
CJX4-50kd, 60kd, and 80kd	79	150	156
CJX4-125kd	87	157	166

CJX4-50kd, 60kd, 80kd, and 125kd



Main Circuit Wiring Diagram