

CJ40 Series
AC Contactor

User Instruction



Safety Warning

- ① Only professional technicians are allowed for installation and maintenance.
 - ② Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
 - ③ When the product is being installed or maintained, the power must be switched off.
 - ④ You are prohibited from touching the conductive part when the product is operating.
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This is the general warning sign. It is used to alert the user to potential hazards. All safety messages that follow this sign shall be obeyed to avoid possible harm.

1 The Purpose of Use and Range of Application

CJ40 series AC contactor is mainly used in AC 50Hz (or 60Hz) circuits with rated operating voltage up to 690V or 1140V. It can be used to frequently start and control motor or remotely connect and disconnect circuit under 400V(380V)AC-3 application category. It can also be used with proper thermal overload relay to act as electromagnetic starter.

2 Main Technical Parameters and Performance

Table 1 Environmental conditions

Environmental conditions	
Ambient temp. (°C)	-5°C~+40°C, average temperature should not exceed +35°C within 24h
Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40°C; up to 90% at +20°C;
Altitude	No influence below 2000m,
Pollution class/ installation category	Class 3/III

Table 2 Main technical parameters and performance index

Model		CJ40-63	CJ40-80	CJ40-100	CJ40-125	CJ40-160	CJ40-200	CJ40-250
Rated impulse withstand voltage Uimp (kV)		8						
Conventional thermal current Ith (A)		80	125		250			
Rated insulation voltage Ui (V)		1140						
Controllable 3-phase motor power AC-3 (kW)	220V	18.5	22	30	37	45	55	75
	380V	30	37	45	55	75	90	132
	660V	55	55	75	75	110	110	110
	1140V	/	/	/	55	/	/	110

Table 2 (continued)

Model		CJ40-63	CJ40-80	CJ40-100	CJ40-125	CJ40-160	CJ40-200	CJ40-250
Electrical life (10^4 times)	AC-3	120						
Mechanical life (10^4 times)		1000						
Operation cycle per hour (AC-3) (times/h)		1200						
Rated current of matching fuse RT16-00(A)		RT16-160		RT16-250		RT16-315		
Coil power	50Hz	Pick-up (VA)		480		880		
		Hold (VA)		50		85		
Operation range		Pick-up voltage (thermal state): (85%~110%)Us Release voltage (normal temperature): (20%~75%)Us, power-saving type:(10%~70%)Us						

Table 2 (continued)

Model		CJ40-315	CJ40-400	CJ40-500	CJ40-630	CJ40-800	CJ40-1000
Rated impulse withstand voltage U_{imp} (kV)		8					
Conventional thermal current I_{th} (A)		500			800		1000
Rated insulation voltage U_i (V)		1140					
Controllable 3-phase motor power AC-3 (kW)	220V	90	110	150	200	250	360
	380V	160	220	280	335	450	625
	660V	300	300	300	475	475	475
	1140V	/	/	220	/	/	600
Electrical life (10^4 times)	AC-3	60			30		
Mechanical life (10^4 times)		600			300		

Table 2 (continued)

Model		CJ40-315	CJ40-400	CJ40-500	CJ40-630	CJ40-800	CJ40-1000
Operation cycle per hour (AC-3) (times/h)		600			300		
Rated current of matching fuse RT16-00(A)		RT16-500			RT17-4/630	RT17-4/800	RT17-4/1250 (1000)
Coil power	50Hz	Pick-up (VA)	1710		3578		
		Hold (VA)	190		91.2		
Operation range		Pick-up voltage (thermal state): (85%~110%)Us Release voltage (normal temperature): (20%~75%)Us, power-saving type:(10%~70%)Us					

Table 3 Basic parameters of auxiliary contacts

Product model	Conventional thermal current (A)	Rated insulation voltage (V)	Rated operating voltage		Rated operating current		Rated control capacity		Contact type and number			
			AC (V)	DC (V)	AC (A)	DC (A)	AC (VA)	DC (W)				
CJ40-63~250	10	690	380	220	0.82	0.27	AC-15	DC-13	NO	4	3	2
			220	110	1.4	0.6	300	60	NC	2	3	4
CJ40-315~1000	16		380	220	1.3	0.27	AC-15	DC-13	NO	4	3	2
			220	110	2.3	0.6	500	60	NC	2	3	4

Table 4 Model and power-saving rate of power-saving product

Model	CJ40-63~250JZ	CJ40-630~1000J	CJ40-315~500JZ
Power-saving rate %	90	90	90

Installation

The overall and installation dimensions should comply with Table 5.

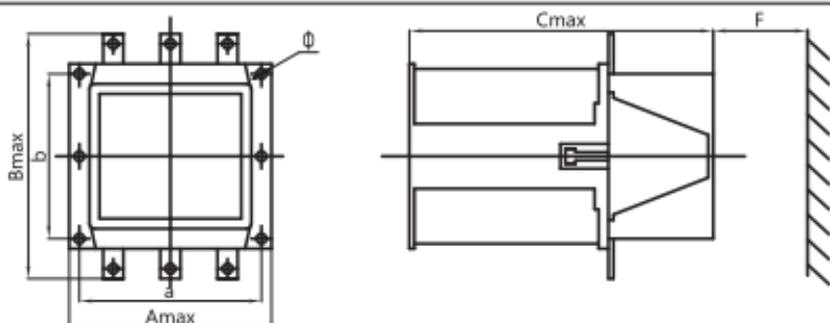


Table 5 Overall and installation dimensions

Unit: mm

Contactor model	Overall dimensions			Installation dimensions			Safe zone F		
	A	B	C	a	b	φ	380V	660V	1140V
CJ40-63~125	116	143	154	100±0.435	90±0.435	5.8	20	40	40
CJ40-160~200	146	186	184	130±0.5	130±0.5	9	30	40	50
CJ40-250							40	60	60
CJ40-315~400	190	235	230	160±0.5	150±0.5	9	40	60	60
CJ40-500							50	70	80
CJ40-630~1000	244.5	347	287.5	210±0.575	180±0.5	11	-		

4 Maintenance

Please check if the contactor can operate reliably every month. Method: Check if the contactor inclines 5° forward upon pick-up and inclines 5° backward upon release.

Conduct maintenance every month. **Note: Do not disassemble, assemble and repair the product at will. Replace the product if it is found to be damaged.**

Table 6 Analysis and Troubleshooting of Faults

Symptoms	Cause analysis	Troubleshooting method
The product does not operation or does not operate reliably	Inconsistency between control power voltage and coil voltage.	Use control power supply that complies with coil voltage.
	Insufficient operation circuit power capacity or disconnection or wrong connection exists in the circuit.	Check the circuit to ensure correct connection.
	Coil burnt; mechanical movable parts jammed.	Replace the coil, remove foreign objects or replace the product.
Noise	There are foreign objects on the polar face of magnet yoke or armature.	Clean the polar face of the iron core.
	The voltage of control power is too low.	Use control power supply that complies with coil voltage.
The product does not release or release slowly	Contact welding	Replace the product.
	There is oil or dust on the polar face of the iron core.	Clean the polar face of the iron core.

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

LVMA

QC PASS

CJ40 Series
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IEC/EN 60947-4-1

Check 14

Test date: Please see The packing

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