

CJ40 Series AC Contactors

1. Scope of application

CJ40 series AC contactors (hereinafter referred to as contactors) are mainly used for connecting and breaking circuits in power systems with AC 50Hz or 60Hz, rated voltages up to 660V or 1140V and currents up to 1000A, and can be combined with appropriate thermal relays or electronic protection devices to form motor starters to protect circuits that may be overloaded.
Standard:GB/T 14048.4, IEC/EN 60947-4-1.

2. Model number and meaning

CJ 40 - □ □

Derivation code:
JZ is AC general-purpose power-saving type (CJ40-63~500 specifications).

J denotes AC muffler energy-saving type (CJ40-630~1000 comes standard with energy-saving coil, if you need normal coil, please purchase coil separately).

(at AC-3,380V) Rated operating current (A) Design number

AC contactors

3. Normal operating conditions and installation conditions

3.1 Ambient air temperature: -5℃ ~+40℃ , the average value of which does not exceed +35℃ in 24 hours.
3.2 Altitude:Not more than 2000m.
3.3 Atmospheric conditions: maximum temperature +40℃ , the relative humidity of the air does not exceed 50%; at lower temperatures can be allowed to have a higher relative humidity, such as 20 ℃ up to 90%. Special measures should be taken for occasional condensation due to temperature changes.
3.4 Pollution level: 3.
3.5 Installation category:Class III.
3.6 Installation conditions:The inclination between the mounting surface and the vertical surface is not more than ±5°.
3.7 Shock and vibration: The product should be installed and used in a place free from significant shaking, shock and vibration

3. Main parameters and technical performance

4.1 The main parameters and technical performance indicators (see Table 1).

Table 1

Contactor type	Frame Size	Rated insulation voltage Ui(V)	Conventional Free Air Heating Current Ith(A)	Controllable maximum power of three-phase squirrel cage motor				Operating cycles per hour/h (AC-3)	AC-3 Electrical life (10,000 cycles)	Coil Power Consumption		Optional fuse (SCPD) type
				220V	380V	660V	1140V			Starting (VA)	Hold (VA)	
CJ40-63	63~125	1140	80	18.5	30	55	-	1200	120	480	50	gG160
CJ40-80				22	37	55	-					gG160
CJ40-100			125	30	45	75	-					gG250
CJ40-125				37	55	75	55					gG250
CJ40-160	160~250		250	45	75	110	-			880	85	gG315
CJ40-200				55	90	110	-					gG315
CJ40-250				75	132	110	110					gG315
CJ40-315	315~500		500	90	160	300	-	600	60	1710	190	gG500
CJ40-400				110	220	300	-					gG500
CJ40-500				150	280	300	220					gG500
CJ40-630	630~1000		800	200	335	475	-	300	30	3578	91.2	gG630
CJ40-800				250	450	475	-					gG800
CJ40-1000			1000	360	625	475	600					gG1250

* Contactors of the same frame size refer to contactors with the same external dimensions and internal structure, only part of the dimensions are different, but the rated working current is different; for example, CJ40-63 and CJ40-125 are contactors of the same frame size (63~125)

4.2 The combination of auxiliary contacts and their basic parameters (see Table 2).

Table 2

Products Model specifications	Conventional free air heating current (A)	Rated insulation voltage (V)	Rated operating voltage (V)		Rated operating current (A)		Rated control capacity		Number of contact types			
			AC	DC	AC	DC	AC	DC				
CJ40-63~250	10	690	380	220	0.82	0.27	AC-15	DC-13	Normally open	4	3	2
			220	110	1.4	0.6	300VA	60W	Normally closed	2	3	4
CJ40-315~1000	16	690	380	220	1.3	0.27	AC-15	DC-13	Normally open	4	3	2
			220	110	2.3	0.6	500VA	60W	Normally closed	2	3	4

4.3 Electricity saving rate of energy-saving products (see Table 3).

Table 3

Product Model Number	CJ40-63~500JZ	CJ40-630~1000J
Electricity saving rate %	90	90

4.4 Action conditions: suction voltage: (85%~110%) Us; release voltage: ordinary type (20%~75%) Us, the rest is (10%~75%) Us.
4.5 Coil control power supply voltage Us: AC 50Hz, 110V, 127V, 220V, 380V; DC 110V, 220V.

CJ40-63~125	AC 50Hz 36, 48, 110, 127, 220, 230, 240, 380, 400, 415;. AC 60Hz 220, 380; AC/DC220
CJ40-160~250	AC 50Hz 36, 110, 127, 200, 220, 240, 380, 440, 660; AC 60Hz 220, 380; AC/DC220
CJ40-315~500	AC 50Hz 110, 127, 220, 240, 380, 415, 440, 660; AC 60Hz 220, 380; AC/DC220
CJ40-630~1000	AC 50/60Hz 220, 380;

4.6 Mechanical life: 10 million times for 250A and below, 6 million times for 315-500A, and 3 million times for 630-1000A.

5. Structural features

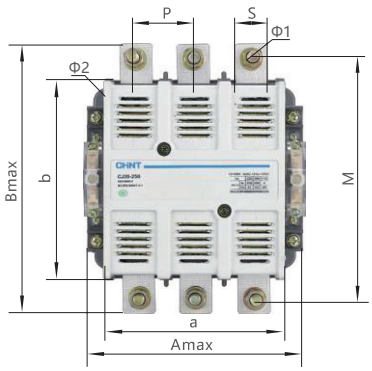
The contactor is a direct-acting structure, the contact arc extinguishing system is located in the upper part, the electromagnetic system is located in the lower part, the contact is double-breakpoint, made of silver alloy. 63A and above products have six pairs of auxiliary contacts, three kinds of combinations (see table 2).
CJ40-63A Above products arc extinguishing cover is made of arc-resistant plastic and iron grill, which overcomes the shortcomings of clay arc extinguishing cover on the one hand, and has the advantages of high breaking capacity and high reliability on the other hand.

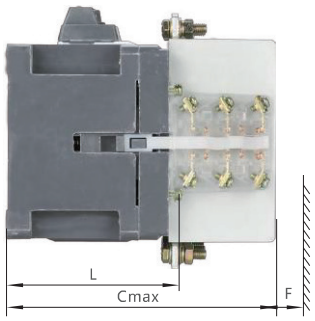
6. External and mounting dimensions

Product outline and mounting dimensions (see Fig. and Table 4).

Table 4

Contactor type	Overall dimensions							mounting dimensions				Safe area F		
	A	B	C	S	P	L	M	a	b	Φ1	Φ2	380V	660V	1140V
CJ40-63~125	116	143	154	15	33	92	122	100±0.435	90±0.435	M6	5.8	20	40	40
CJ40-160~200	146	186	184	20	45	123	164	130±0.5	130±0.5	M8	9	30	40	50
CJ40-250	146	186	184					130±0.5	130±0.5	M8	9	40	60	60
CJ40-315~400	190	235	230	28	49	152	208	160±0.5	150±0.5	M10	9	40	60	60
CJ40-500	190	235	230					160±0.5	150±0.5	M10	9	50	70	80
CJ40-630~1000	244.5	347	287.5	50	82.5	179	321	210±0.575	180±0.5	2-M10	11	-	-	-





7. Instructions for ordering

7.1 When ordering contactors, specify the following.
7.1.1 Complete name and model number of the contactor.
7.1.2 The rated operating voltage and frequency or specification designation of the coil.
7.1.3 Auxiliary contact combinations, if not specified, 63A and above are provided with four normally open and two normally closed.
7.1.4 Order Quantity.
7.2 Order Example:CJ40-63 AC contactor Coil voltage 380V 50Hz 10 pcs.