NO:2023.12

CHINT ELECTRICS

CJ20 Series
AC Contactor

User Instruction

Standard:IEC/EN 60947-4-1

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.



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

CJ20 series AC contactor is mainly used in AC 50Hz (or 60Hz) circuits with rated operating voltage up to 690V. 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 MainTechnical Parameters and Performance

Table 1 Environmental conditions

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

Table 2 Main technical parameters and performance

Model		CJ20-10	CJ20-16	CJ20-25	CJ20-40	CJ20-63
Rated impulse withstand voltage Uimp (kV)		8				
Conventional thermal current Ith (A)		10	16	32	55	80
Rated insulation voltage Ui (V)		690				
Controllable 3-phase motor power AC-3 (kW)	220V	2.2	4.5	5.5	11	18
	380V	4	7.5	11	22	30
	660V	4	11	13	22	35
Electrical life (10^4 times)	AC-3	100				120

Table 2 (continued)

Model			CJ20-10	CJ20-16	CJ20-25	CJ20-40	CJ20-63
Mechanical life (10^4 times)			1000				
Operation cycle per hour (AC-3) (times/h)			1200				
Rated current of matching fuse RT16-00(A)			20	32	50	80	160
Coil power	50Hz	Pick-up (VA)	65	62	93	175	480
		Hold (VA)	9	9.5	14	19	50
Operation range			Pick-up voltage (thermal stage): (85%~110%)Us Release voltage (normal temperature): (20%~75%)Us, power-saving type: (10%~70%)Us				

Table 2 (continued)

Model		CJ20-100	CJ20-160	CJ20-250	CJ20-400	CJ20-630
Rated impulse withstand voltage Uimp (kV)		8				
Conventional thermal current Ith (A)		125	200	315	400	630
Rated insulation voltage Ui (V)		690				
Controllable 3-phase motor power AC-3 (kW)	220V	28	48	80	115	175
	380V	50	85	132	200	300
	660V	50	85	/	220	/
Electrical life (10^4 times)	AC-3	120		60		
Mechanical life (10^4 times)		1000		600		
Operation cycle per hour (AC-3) (times/h)		1200		600		
Rated current of matching fuse RT16-00(A)		250	315	400	500	630

Table 2 (continued)

Model			CJ20-100	CJ20-160	CJ20-250	CJ20-400	CJ20-630
Coil power	50Hz	Pick-up (VA)	570	855	1710		3578
		Hold (VA)	60	85	150	190	240
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 mode	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)				
CJ20-10~40	10	690	380	220	0.26	0.14	AC-15 100	DC-13 30	2 NO, 2 NC			
			220	110	0.45	0.27						
CJ20-63~160			380	220	0.80	0.27	AC-15 300	DC-13 60	2 NO, 2 NC			
			220	110	1.4	0.6						
CJ20-250~630	16		380	220	1.3	0.27	AC-15 500	DC-13 60	NO	4	3	2
			220	110	2.3	0.6			NC	2	3	4

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

Model	CJ20-63~160JZ	CJ20-630J	CJ20-250~630JZ
Power-saving rate %	90	95	95

3 Installation

The overall and installation dimensions should comply with Table 5.

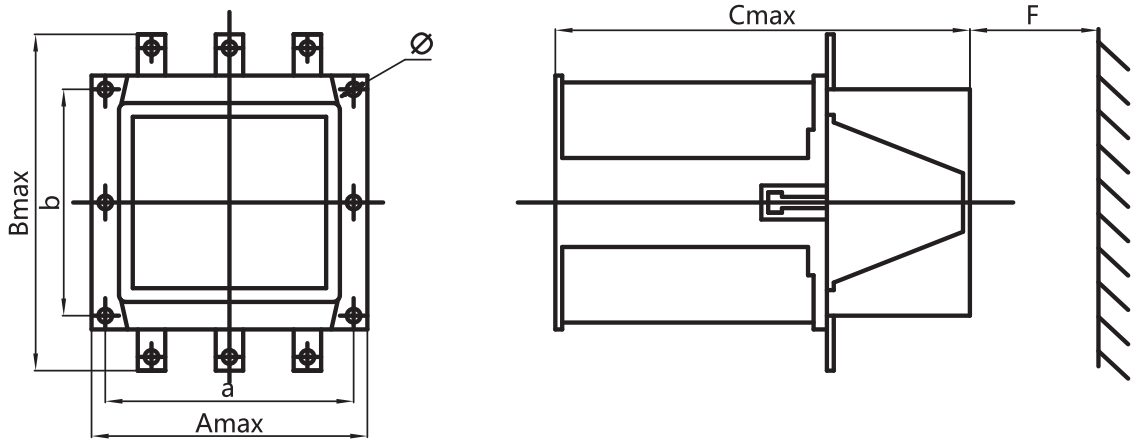


Table 5 overall and installation dimensions

Unit: mm

Contactor model	A	B	C	a	b	Φ	F
CJ20-10	44.5	72.5	107	35±0.31	60±0.37	5	10
CJ20-16		72.5	116.5		60±0.37		
CJ20-25	53	91	122	40±0.31	80±0.37		
CJ20-40	87	112.5	125	70±0.37			30
CJ20-63	116	142	146	100±0.4	90±0.4	5.8	60
CJ20-100	122	147	154	108±0.435	92±0.435	7	70
CJ20-160	146	187	178	130±0.5	130±0.5	9	80
CJ20-250	190	235	230	160±0.5	150±0.5		110
CJ20-400	190	235	230	160±0.5	150±0.5	9	110
CJ20-630	245	294	272	210±0.5	180±0.5	11	120

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

Symptons	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.

CHINT

QC PASS

CJ20 Series
AC Contactor
IEC/EN 60947-4-1

Check 13

Test date: Please see The packing

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CHINT ELECTRICS

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AC Contactor
User Instruction

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