CJX1-K series AC vacuum contactors

1 Gerernal

CJX1-K series AC vacuum contactors (hereinafter referred to as contactors) are mainly suitable to be used in the circuit with AC 50Hz~60Hz, rated working voltage up to 1000V, and rated working current up to 820A, for remote connection and disconnection of circuits. The contactors can be used in combination with appropriate thermal overload relay or electronic protector and other protective devices to form a vacuum electromagnetic starter, especially suitable for forming an explosion-proof vacuum electromagnetic starter. The contactors are widely applied in mines, smelting, petroleum extraction, storage, chemical industry, military industry, textile, construction and other flammable, explosive or harsh environment.
Compliance standards: IEC 60947-4-1。

CJX 1 - □/□□ K
- K — Vacuum
- □□ — Quantity of normally closed auxiliary contacts
- □ — Basic specification code(Used in AC-3 class, expressed by rated working current at 380V)
- 1 — Design serial No.
- CJX — AC contactor

AX2- 1 1 □
- □ — "A" hangs on the left inner side,"B"hangs on the right inner side,"C"hangs on the left outer side,and "D"hangs on the right outer side
- 1 — Quantity of normally closed auxiliary contacts
- 1 — Quantity of normally open auxiliary contacts
- AX2 — Auxiliary contact group

3 Normal working conditions and installation conditions

3.1 Ambient temperature: -25°C~+60°C, with average value not exceeding +35°C within 24 hours.

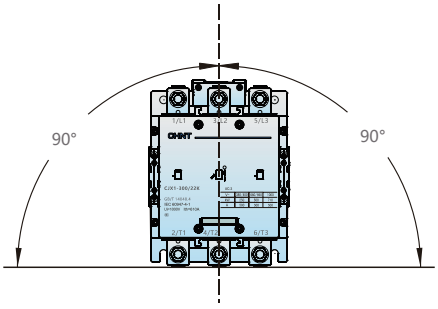
3.2 Atmospheric conditions: When the highest temperature is +60°C, the relative humidity of the air does not exceed 50%, and the higher humidity is allowed at lower temperatures. Special measures should be taken in case of occasional condensation due to variations in temperature.

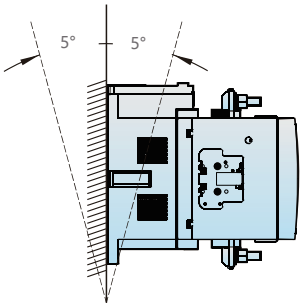
3.3 Pollution degree: 3.

3.4 Installation category: III.

3.5 Installation conditions: Vertical installation, the inclination of installation surface plane is not greater than ±5°.

3.6 Impact vibration: The product should be installed and used in a place free of significant shaking, impact and vibration.





4 Product advantages

Wide applicable power supply

AC and DC coils are interchangeable.
For AC, 50Hz~60Hz are interchangeable.

Energy- saving

The electromagnetic system adopts dual-coil energy-saving technology, which saves energy by about 85% compared with traditional contactors.

No electromagnetic noise

The conversion module of the electromagnetic system has the function of surge suppression, but also converts AC power to DC power in operation, thereby avoiding noise caused by electromagnetic oscillation.

Safety and environmental protection

Vacuum arc extinguishing technology is used, no arc spraying.

Easy maintenance

CJX1-225~500/22K coil block adopts the drawer-type structure, which can be directly drawn out for replacement.

5 Main parameters and technical performance

Rated insulation voltage(Ui):1000V

Contactor type		CJX1-225/22K	CJX1-265/22K	CJX1-300/22K
Appearance				
Conventional free air thermal current Ith(A)		330	330	330
AC-3 Rated working current Ie(A)	400V/380V	225	265	300
	690V/660V			
	1000V			
The maximum power(kw) of controllable three-phase squirrel-cage motor under AC-3 class	400V/380V	110	132	160
	690V/660V	200	250	250
	1000V	315	355	400
AC-4 Rated operational current Ie(A)	400V/380V	110	132	160
The maximum power (kW)of controllable three-phase squirrel cage motor under AC-4 class	400V/380V	110	132	160
Mechanical life	Operating frequency (times/h)	1200	1200	1200
	Number of times×10^4	700	700	700
AC-3 electrical life	Operating frequency (times/h)	600	600	600
	Number of times×10^4	200	200	200
Coil power (VA)	Start	95	95	95
	Operation	7.4	7.4	734
Basic parameters of auxiliary contact		AC-15：380V 0.95A，DC-13： 220V 0.15A，Ui:660V，Ith:10A		
Quantity of auxiliary contact		2 NO and 2 NC		
Coil voltage	AC 50~60Hz	110V、220V、380V		
	DC			
Product net weight(kg)		7.369	7.369	7.369

	CJX1-400/22K	CJX1-500/22K	CJX1-630/22K	CJX1-820/22K
				
	610	610	700	910
	400	500	630	820
	200	250	330	450
	400	500	500	800
	560	710	600	800
	200	250	355	400
	200	250	355	400
	1200	1200	1200	1200
	700	700	500	500
	600	600	120	120
	150	150	120	120
	115	115	180	180
	6.6	6.6	25	25
	AC-15：380V 0.95A，DC-13： 220V 0.15A，Ui:660V，Ith:10A			
	2 NO and 2 NC		4 NO and 4 NC	
	110V、220V、380V			
	10.618	10.618	19.800	19.800

6 Overall and installation dimensions

Figure1 CJX1-225/22K、CJX1-265/22K、CJX1-300/22K

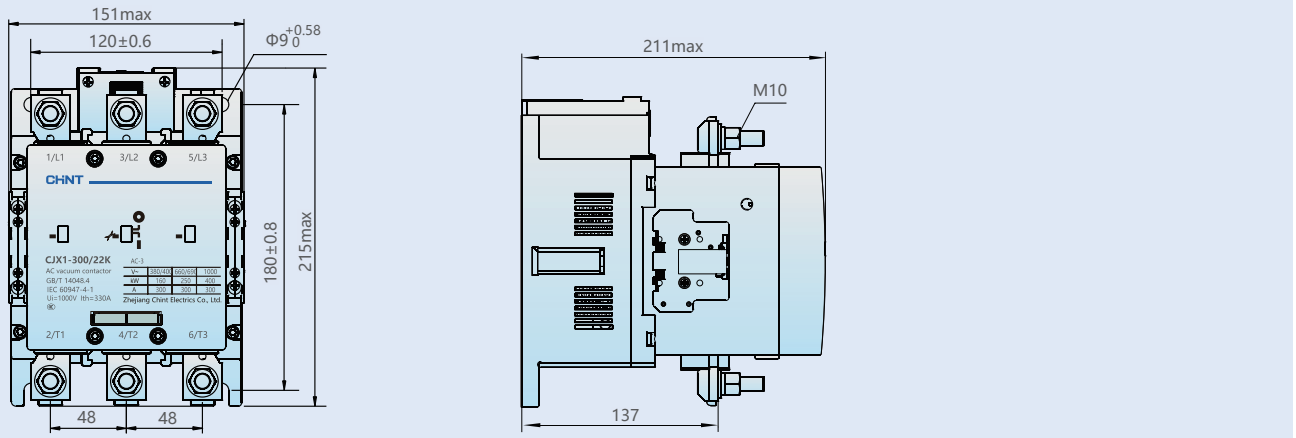


Figure2 CJX1-400/22K、CJX1-500/22K

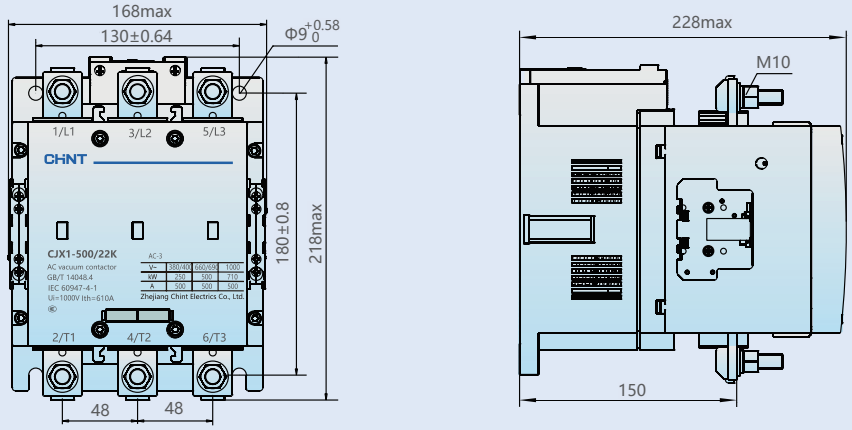
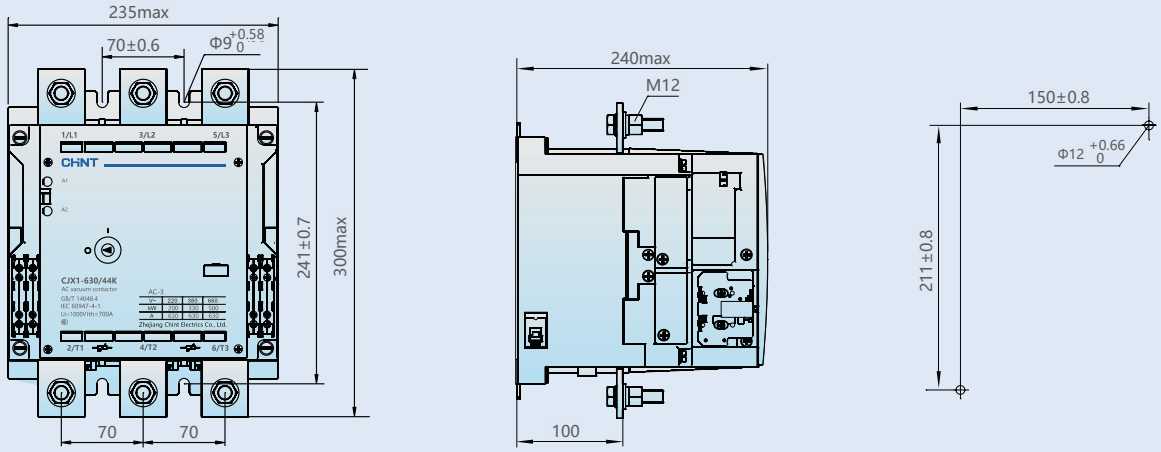


Figure3 CJX1-630/44K、CJX1-820/44K



7 Type selection and ordering data

Product type		Control voltage AC50~ 60Hz/DC (V)	Order code	Recommended matching bimetallic overload relay	
				Product type	Adjusting scope of setting current(A)
	CJX1-225/22K	110	275702		NR2-200 125-200A NR2-630 160-250A
		220	275703		
		380	275704		
	CJX1-265/22K	110	275705		NR2-630 160-250A NR2-630 200-315A
		220	275706		
		380	275707		
	CJX1-300/22K	110	275708		NR2-630 200-315A NR2-630 250-400A
		220	275709		
		380	275710		
	CJX1-400/22K	110	275711		NR2-630 250-400A NR2-630 315-500A
		220	275712		
		380	275713		
	CJX1-500/22K	110	275714		NR2-630 315-500A NR2-630 400-630A
		220	275715		
		380	275716		
	CJX1-630/44K	110	275696	NR2-630	NR2-630 400-630A
		220	275697		
		380	275698		
	CJX1-820/44K	110	275699		NR2-630 400-630A
		220	275700		
		380	275701		

Ordering instruction: When ordering contactor, the complete product type, name, voltage and quantity of coil must be indicated.

Recommended matching electronic overload relay		Recommended matching SCPD	Rated current(A)	Conductor section(mm^2)	Tightening torque(N.M)
Product type	Adjusting scope of setting current(A)	Product type			
 NRE8-200	NR8-200 100-200A NR8-200 125-250A	 RT36-2	400A	185	
	NR8-200 125-250A NR8-630 200-400A				
	NR8-630 200-400A NR8-630 200-400A				
 NRE8-630	NR8-630 200-400A NR8-630 315-630A	 RT36-3	630A	2×185	14
	NR8-630 315-630A NR8-630 315-630A				
	NR8-630 315-630A	 RT36-4		2×240	14
	NR8-630 315-630A		1000A	2×(60×5) copper busbar	14

Order example: 10 sets of CJX1-225/22K AC vacuum contactor coil voltage 220V 50Hz