YCC6 series AC CONTACTOR OPERATION INSTRUCTION

Standard: IEC 60947-4-1



Before installing and using this product, please read this instruction carefully and pay more attention to safety.

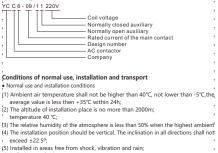
Safety Notificatio	In	95 AC Cont structions	actor	,
Please read this inst taining,testing. And the contents of this in	ructions carefully installing and usir			
Risks: Do not operate the Do not touch the Maintenance must	onductive parts di			: ; ;
Attention: Installation and main Please confirm the v can meet the requ Please turn on the on the load withou Regularly tighten t Do not let foreign If you need access If the product is bu use the item and c When products are your cooperation.	oltage, current, freq rements. control circuit first it abnormal. erminals, remove o matter fall into the ories, please select oken or has an ab ontact the supplie	, do no-load oper deposited dust. product. the accessories pr normal noise when	n category of ation test, an rovided by ou n unpacking,	the product d then turn ur company. should not
Main technical para				Table 1
	AC-3 utilizat	ion category Pe(kW)	AC-4 utilizat	ion category

			AC-3	utilizat	ion category			AC-4 utilization category				ŀ
Model			le(A)			Pe(kW)			A)	Pe(kW)		ŀ
		220/ 230V	380/ 400V	660/ 690V	220/ 230V	380/ 400V	660/ 690V	380/ 400V	660/ 690V	380/ 400V	660/ 690V	•
YCC6-09	20	9	9	6.6	2.2	4	5.5	3.5	1.5	1.5	1.1	ľ
YCC6-12	20	12	12	8.9	3	5.5	7.5	5	2	2.2	1.5	ľ
YCC6-18	32	18	18	12	4	7.5	10	7.7	3.8	3.3	3	ŀ
YCC6-25	40	25	25	18	5.5	11	15	8.5	4.4	4	3.7	ŀ
YCC6-32	50	32	32	22	7.5	15	18.5	12	7.5	5.4	5.5	
YCC6-38	50	38	38	22	9	18.5	18.5	14	8.9	5.5	6	
YCC6-40	50	40	40	34	11	18.5	30	18.5	9	7.5	7.5	Ι.
	YCC6-12 YCC6-18 YCC6-25 YCC6-32 YCC6-38	YCC6-09 20 YCC6-12 20 YCC6-18 32 YCC6-25 40 YCC6-32 50 YCC6-38 50	YCC6-09 20 230/ YCC6-12 20 12 YCC6-18 32 18 YCC6-25 40 25 YCC6-32 50 32	Model Ith(A) Ie(A) 220/ 380/ 220/ 380/ YCC6-09 20 9 9 9 YCC6-12 20 12 12 12 YCC6-18 32 18 18 18 YCC6-32 40 25 25 YCC6-32 50 32 32 YCC6-32 50 32 32 32 32 32 32	Model le(A) 220/ 380/ 660/ 230V 400/ 690v YCC6-09 20 9 9 YCC6-12 20 12 12 8.9 YCC6-53 32 18 18 12 YCC6-25 40 25 25 18 YCC6-32 50 32 32 32 32	Model lth(A) ie(A) ie(A) 220/ 380/ 660/ 220/ 980/ 660/ 220/ 380/ 660/ 220/ VCC6-09 20 9 9 6.6 2.2 VCC6-12 20 12 12 8.9 3 VCC6-12 20 12 18 12 4 VCC6-52 40 25 25 18 5.5 VCC6-32 50 32 32 22 7.5 VCC6-34 50 38 38 22 9	Model IIII(A) 220/ 380/ 660/ 220/ 380/ VCC6-09 20 9 6.6 2.2 4 VCC6-10 20 12 12 8.9 3 5.5 VCC6-52 20 12 12 8.9 3 5.5 VCC6-63 23 18 18 12 4 7.5 VCC6-63 50 38 32 32 12 12 VCC6-32 50 38 38 22 9 18.5	Model le(A) Pe(kW) 220/ 380/ 660/ 220/ 380/ 660/ 230V 400v 690V 230V 400v 690V 230V 400v 690V VCC6-09 20 9 9 6.6 2.2 4 5.5 VCC6-12 20 12 12 8.9 3 5.5 7.5 VCC6-25 32 18 18 12 4 7.5 10 VCC6-25 40 25 25 18 5.5 11 15 VCC6-32 50 32 32 2 7.5 15 18.5 VCC6-32 50 38 38 22 9 18.5 18.5	Model le(A) Pe(kW) le(A) 2207 380 6607 2207 3807 6607 2307 4009 6907 2307 4009 6907 2307 VCC6-09 20 9 9 6.6 2.2 4 5.5 3.5 VCC6-18 21 12 12 8.9 3 5.5 7.5 5 VCC6-25 40 2.5 2.5 18 18 12 4 7.5 10 7.7 VCC6-32 50 32 32 2.2 7.5 15 8.5 11 15 8.5 VCC6-32 50 32 32 2.2 7.5 15 18.5 12 VCC6-32 50 38 32 2 18.5 14.5 14 VCC6-32 50 38 38 22 9 18.5 14.5 14	Model Ie(A) Pe(kW) Ie(A) 220/ 380 660/ 220/ 380/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 660/ 80/ 80/ 80/ 80/ 60/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ 80/ <td>Model Ie(A) Pe(KW) Ie(A) Pe(I) 220/ 380/ 660/ 220/ 380/ 660/ 38/ 3 55 7.5 5 2 2 2 2 7.5 10 7.7 38 3 VC6C6-32 30 32 12 4 7.5 15 15 14 8 5 5 VC6C6-32 50 32 32 22 7 15 18.5 12 <td< td=""><td>Model Ie(A) Pe(KW) Ie(A) Pe(KW) 2207 3807 6607 3807 6607 3807 6607 2304 4007 6307 6607 3807 6607 3807 6607 2304 4007 6307 6307 6307 6607 3807 6607 YCC6-09 20 9 9 6.6 2.2 4 5.5 1.5 1.5 1.1 YCC6-18 32 18 18 12 4 7.5 5 2 2.1 1.5 YCC6-32 40 252 25 18 15.5 10 7.7 3.8 3.3 YCC6-32 50 32 32 2.2 7.5 15 18.5 14 8.9 5.5 YCC6-32 50 32 32 32 2.2 7.5 15 18.5 14 8.9 5.5 5 YCC6-32 50 38 <td< td=""></td<></td></td<></td>	Model Ie(A) Pe(KW) Ie(A) Pe(I) 220/ 380/ 660/ 220/ 380/ 660/ 38/ 3 55 7.5 5 2 2 2 2 7.5 10 7.7 38 3 VC6C6-32 30 32 12 4 7.5 15 15 14 8 5 5 VC6C6-32 50 32 32 22 7 15 18.5 12 <td< td=""><td>Model Ie(A) Pe(KW) Ie(A) Pe(KW) 2207 3807 6607 3807 6607 3807 6607 2304 4007 6307 6607 3807 6607 3807 6607 2304 4007 6307 6307 6307 6607 3807 6607 YCC6-09 20 9 9 6.6 2.2 4 5.5 1.5 1.5 1.1 YCC6-18 32 18 18 12 4 7.5 5 2 2.1 1.5 YCC6-32 40 252 25 18 15.5 10 7.7 3.8 3.3 YCC6-32 50 32 32 2.2 7.5 15 18.5 14 8.9 5.5 YCC6-32 50 32 32 32 2.2 7.5 15 18.5 14 8.9 5.5 5 YCC6-32 50 38 <td< td=""></td<></td></td<>	Model Ie(A) Pe(KW) Ie(A) Pe(KW) 2207 3807 6607 3807 6607 3807 6607 2304 4007 6307 6607 3807 6607 3807 6607 2304 4007 6307 6307 6307 6607 3807 6607 YCC6-09 20 9 9 6.6 2.2 4 5.5 1.5 1.5 1.1 YCC6-18 32 18 18 12 4 7.5 5 2 2.1 1.5 YCC6-32 40 252 25 18 15.5 10 7.7 3.8 3.3 YCC6-32 50 32 32 2.2 7.5 15 18.5 14 8.9 5.5 YCC6-32 50 32 32 32 2.2 7.5 15 18.5 14 8.9 5.5 5 YCC6-32 50 38 <td< td=""></td<>

- 01

1				AC-3 utilization category					AC-4	utilizat	ion cat	egory
1	Model	Ith(A)		le(A) Pe(kW)				le(A)		Pe(kW)	
1	woder	TUT(A)	220/ 230V	380/ 400V	660/ 690V	220/ 230V	380/ 400V	660/ 690V	380/ 400V	660/ 690V	380/ 400V	660/ 690V
	YCC6-50	60	50	50	39	15	22	33	24	12	11	10
	YCC6-65	80	65	65	42	18.5	30	37	28	14	15	11
	YCC6-80	125	80	80	49	22	37	45	37	17.3	18.5	15
-1	YCC6-95	125	95	95	49	25	45	45	44	21.3	22	18.5
1	(ON-OFF	cycle w	ork, lo	ad facto	or is to	40% of	rated	operati	on freq	uency	
į	YCC6-09~	25	AC-3		0/380\ 660V:		times/ nes/h		AC-4		300tin	
1	YCC6-32~	95	AC-3		220/380V: 600times/h 660V: 300times/h				AC-4	660V:	120tin	nes/h
÷												

Type designation



- (6) Pollution grade: 3;
- (7) Installation category: III;
- (8) Rated impulse withstand voltage Uimp: 6000V;
- (9) Protection class: IP20.

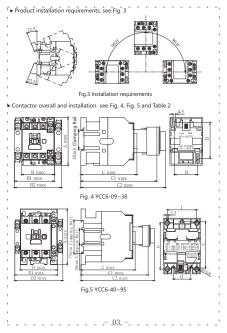
- 02 -

 Normal storage and transport conditions (1) Temperature: -25/C - +55/C, can be up to 70°C for short time(24h); (2) Relative temperature: -255%; (3) Products should be handled with care and without inversion in transportation to avoid strong collision; (4) Products should not be encroached by rain and snow when carrying and storage. 	÷
Install Product	1
Contactor has two mounting methods: Screw mounting and rail mounting:	1
 YCC6-09~38 must be installed with 35mm standard rail clamp; 	1
 YCC6-40~95 can be installed with 35mm or 75mm standard rail clamp; 	1
· Before mounting, please check rated voltage of coils, frequency should be same with control	1
power. Do not use contactor when it is damaged or not fixed.	1
Installation and disassemble method, see Fig. 1 and Fig.2	1
Fig.1 Installation and disassemble method of YCC6-09~38	1
	1

2 Fig.2 Installation and disassemble method of YCC6-40~95

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		"Table 2: YCC6-09~95	AC	contactor	Overall	and Mounting	Unit: mm
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!	Туре	Auxiliary contact	Amax	Bmax	B1max	B2max	Cmax	C1max	C2max	ŀ
ł	YCC6-09, 12, 18	11	74.5	45.5	58	71	85.5	117.5	142.5	ŀ
ł	YCC6-25, 32, 38	11	83	56.5	69	82	97	129	154	ŀ
	YCC6-40, 50, 65	11	127.5	74.5	88	101	117	148.5	173.5	ŀ
	YCC6-80, 95	11	127.5	85.5	99	112	125.5	5 157	182	Ι.
1	Note: B1 max-contact C1 max-contact	max-c max-c							2	
1	Type	Auxiliary contact	а	b	0		d	e	f	ľ
1	YCC6-09, 12, 18	11	35	50/6	0 -		-	-	-	ľ
1	YCC6-25, 32, 38	11	40	50/7	0 -		-	-	-	ŀ
1	YCC6-40, 50, 65	11	-	-	10	5 4	40 1	100/110	59	ŀ
ł	YCC6-80, 95	11	-	-	10	5 4	40 1	100/110	67	ŀ

· Reversing AC contactor Overall and Mounting dimension,

see Fig. 6, Fig. 7 and Table 3.

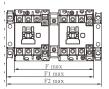


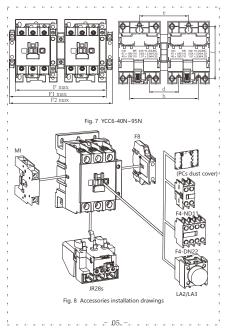


Fig. 6 YCC6-09N~38N

Table 3 YCC6 -09N~95N Interlocking AC contactor Overall and Mounting

Unit: mm

		-					-		
1	Туре	Fmax	F1max	F2max	С	d	е	f	h
-[YCC6-09N, 12N, 18N	107	120	131	60	25	60	50/60	95
.[YCC6-25N, 32N, 38N	129	142	153	71	31.5	71	50/60	111.5
1	YCC6-40N, 50N, 65N	163	180	193	-	50	90	100/110	130
1	YCC6-80N, 95N	186	202	215	-	60	100	100/110	140
1									
1									
1									
1			- 0	4					



(1) Auxiliary contact

YCC6-09~95 has a pair of normally open and a pair of normally closed auxiliary contact.

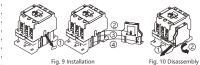
Table 4 Main parameters of auxiliary contacts

1	Using categories	Rated insulation	Convention free air heating	Control	capacity	Rated o curre	perating ent le	
;	!	voltage Ui	current Ith	making	breaking	220V	380V	ŀ
÷	AC-15	690V	10A	3600VA	360VA	1.6A	0.95A	ŀ
ł	DC-13	690V	TUA	33	W	0.15A	-	ŀ

The contactor can be equipped with an independent auxiliary contact module. The model and specification and the combination of normal open and normal close are shown in Table 5. The installation method of FD6 is consistent with that of the air delay head, the installation and disassembly methods of FC6 are shown in Fig. 9 and Fig. 10.

Table 5 Auxiliary contact block

1	Type	F4-DN20	F4-DN11	F4-DN02	F4-DN40	F4-DN31	F4-DN22	F4-DN13	F4-DN04	Ŀ
1	Normally open (NO) numbers	2	1	0	4	3	2	1	0	!
1	Normally closed (NC) number	0	1	2	0	1	2	3	4	ŀ



method for F8

Fig. 10 Disassembly method for F8

(2) Time delay contact

The contactor can be combined with LA2/LA3 time delay contact into a delay contactor, and the delay range is shown in Table 6.

Table 6 Time delay contact

Туре	Delay range	Number of delayed contacts	Delay type	
LA2-DT0	0.1~3s			
LA2-DT2	0.1~30s		ON delay	
LA2-DT4	10~180s	1NO+1NC		
LA3-DR0	0.1~3s	INO+INC		
LA3-DR2	0.1~30s		OFF delay	
LA3-DR4	10~180s		1	
	Note: It is adjus	ted minimum value in factory.		

12

Fig. 12 Disassemble method

of time delay contact

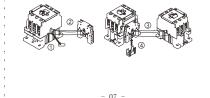
Installation and disassemble method of time delay contact head as shown in Fig. 11, Fig. 12

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Fig. 11 Installation method

of time delay contact

Installation: ① Align the chute with the contactor chute; ② Push down until the buckle automatically sticks; Disasemble: ① The buckle is lifted upward; ② Push up along the chute and remove (3) The installation method of FR6 mechanical interlock is shown in Fig. 13, YCC6-09-38A only needs to be completed Step ① to ③, YCC6-40–95A also needs to install the fixed connecting plate:



(1) Tear off the dustproof paste (3) Install another contactor as shown in the figure 2 Install Mechanical interlocking (a) Install the fixed module as shown in the picture (5) Fix the two contactors with fastening screws, nuts and connecting plates as shown in the figure



Fig. 13 mechanical interlocking MI installation method

(4) Electro magnetic starter

- The contactor can becom bined with the JR28s series the rmalover load relay to for
- manelectro magne ticstarter.

Debuggingandoperation

- Check whether the technical parameters of the product meet the use requirements;
- Switch on the control loop first, carry out no-load operation test, and then connect the load after there is no abnormality:
- · Do not let foreign matter fall into the product;
- SCPD is recommended to be selected according to type 1 coordination protection, rated
- limited short circuit current LQ: 20kA(corresponding test voltage 400V), and the fuse type is shown in Table 7.

Table 7 Models with fuses

1	Model	YCC6-09	YCC6-12	YCC6-18	YCC6-25	YCC6-32	Ľ
1	Main Loop	RT16-00 20A	RT16-00 20A	RT16-00 32A	RT16-00 40A	RT16-00 50A	Ľ
1	Model	YCC6-40	YCC6-50	YCC6-65	YCC6-80	YCC6-95	1
1	Main Loop	RT16-00 63A	RT16-00 80A	RT16-00 80A	RT16-00 100A	RT16-00 125A	1
1	Auxiliary Loop			RT16-00 10A			Ŀ

Ω8.

1	Table8	Wiring	capacity	and	fastening	twist

1	Current speci fication			09/12/18	25/32/38	40/50/65	80/90	1
Main loop wiring							1	
ł	Soft wire without	1 wire	mm ²	14	1.510	425	650	ŀ
ł	connect terminal	2 wire	mm ²	14	1.56	416	625	ŀ
	Soft wire with	1 wire	mm ²	14	16	425	650]
ł.	connect terminal	2 wire	mm ²	12.5	14	410	616]
į	Hard wire without	1 wire	mm ²	14	1.56	425	650].
Ĵ	connect terminal	2 wire	mm ²	14	1.56	410	625]
ŝ	Tightening Torque		N⋅m	1.2	1.8	5	9	ľ

2							
÷	Current speci f	ication		09/12/18 25/32/38 40/50/65 80/90			80/90
Control and auxiliary loop wiring							
	Soft wire without	1 wire	mm ²		1.	4	
	connect terminal	2 wire	mm ²		1.		
1	Soft wire with	1 wire	mm ²	125			
1	connect terminal	2 wire	mm ²		1	2.3	
ţ	Hard wire without	1 wire	mm ²		14		
ł	connect terminal	2 wire	mm ²		14		
÷	Tightening Torque		N∙m		1.2		

ŧ.

Maintenance

 Contactors should regularly tighten the terminals, remove the terminals, remove the deposited dust and so on, otherwise there will be fire and short circuit risk;

• Small metal particles sprayed around the contact or on the cover of the contactor should be removed, and the contactor should be stopped using when contact surface burns

to expose the base material.

Fault analysis and treatment

Table 9 Common fault analysis and treatment

Fault Performance	Cause Analysis	Treatment Measures
The iron core cannot be sucked in or the suction is insufficient(that is, the contact is closed but the iron core has not been completely sucked in)	1. The power supply voltage is too low or fluctuates too much: upply capacity of the Speating circuits or occurrence of disconnection, incorrect wiring and poor contact of control contacts: 3. The technical parameters of the coil do not match the conditions of use: 4. The product itself is damaged (e.g. the coil is broken or burned, the movable part of the machine is stuck, etc.)	1.Increase the power supply voltage; 2.Increase the power supply capacity, replace the circuit, repair the control contact; 3. Replace the contactor; 4. Eliminate stuck faults and repair damaged parts.
No release or slow release	 Contact welding; The movable part of the machine is stuck; There is oil or dust on the pole surface of the iron core. 	1. Eliminate welding faults, repair or replace contactors; 2. Eliminate the stuck fault; 3. Clean up the pole surface of the iron core.
The coil is overheated or burned	 The power supply voltage is too high or too low; The technical parameters of the coil (such as rated voltage, frequency,continuity rate of energization, and working system, etc.) are not and working system, etc.) are not 3. The moving part is stuck; The suring part is stuck; The surface of the iron core is uneven or the dust sticks. 	1. Adjust the power supply voltage; 2. Replace the contactor; 3. Eliminate mechanical jam failure; 4. Clear up pole surface of the iron core.
Electromagnet (AC) Very noisy	 The power supply voltage is too low; Zmechanically jammed, so that the iron core cannot be fattened; The surface of the iron core is ruty or the iron core; The surface of the iron core is surface of the iron core; The short-circuit ring is broken or the surface of the iron core is excessively worn and uneven. 	1. Increase the operating circuit voltage: 2. Adjust the magnetic system or eliminate mechanical jam failure; 3. Clean up pole surface of the iron core; 4. Replace the contactor.
Contact welding	 The operating frequency is too high or the product is overloaded; Short circuit on the load side. 	1.Replace with the appropriate contactor; 2.Eliminate short-circuit faults.

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Product Model: YCC6-09-95 series						
Standard: IEC 60947-4-1 NC CNC						
Inspector: CNC006						
Production date: Printed on the product						
or package.						
This product is qualified according						
to the delivery inspection						

CNC ELECTRIC

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