

# Motor Control & Protection

## YCC6 AC Contactor



### General

YCC6 series AC Contactor with novel appearance and compact structure is suitable for using starting & controlling the AC motor frequently, switching on and off the circuit at a long distance. It is used in combination with thermal relay to compose a magnetic motor starter.

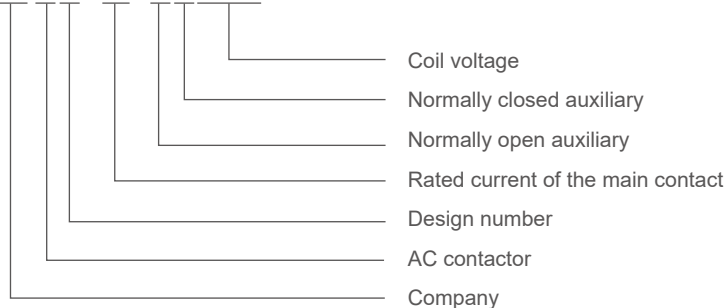
Standard: IEC 60947-1, IEC 60947-4-1.

### Technical data

- Rated operation current(Ie): 9-95A
- Rated operation voltage(Ue):220V~690V
- Rated insulation voltage: 690V
- Poles: 3P
- Installation: Din rail and screw installation

### Type designation

Y C C 6 - 09 / 1 1 220V



### Operating Conditions

Type	Operating Conditions
Installation category	III
Pollution degree	3
Certification	CE, CB, CCC, TUV
Protection degree	YCC6-09~38:IP20(front side);YCC6-40~95:IP10
Ambient temperature	Limit of temperature: -35°C~+70°C; Normal temperature: -5°C~+40°C; The average no more than +35°C within 24 hours; If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitud	≤ 2000m
Ambient temperature	The maximum temperature of 70 degrees, the air relative humidity not exceed 50%, under lower temperature can allow for higher relative humidity. If the temperature is 20°C, the air relative humidity could upto 90%. Special measures should be taken for occasional condensation due to humidity changes.
Installation position	Inclination between installation surface and vertical surface should not exceed +5°
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.



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### Specifications

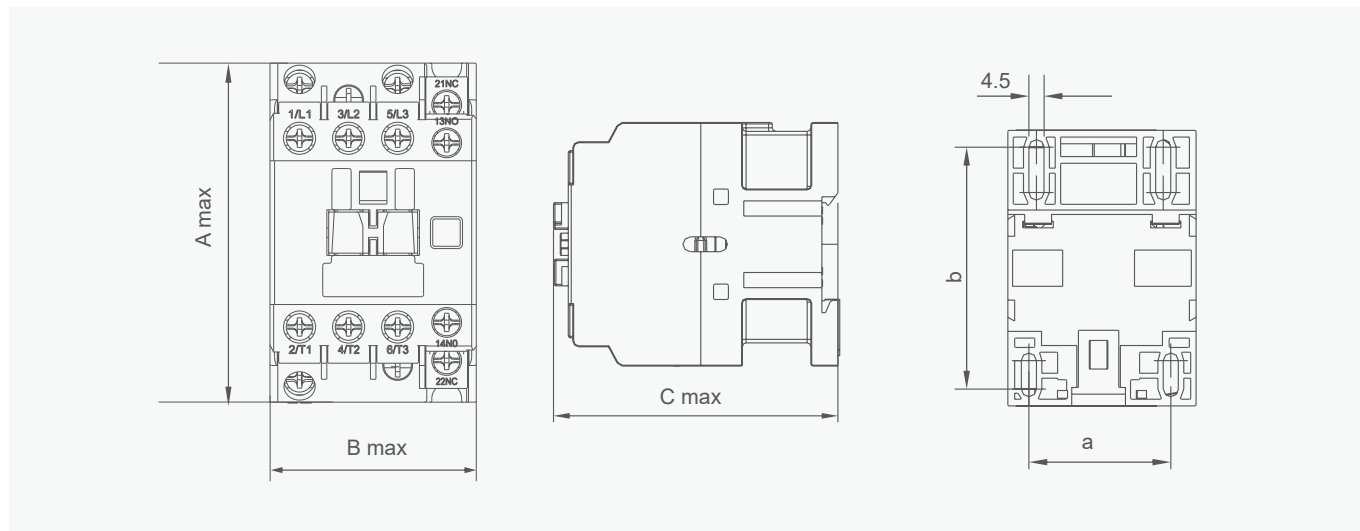
YCC6 Specifications																	
Type			YCC6-09	YCC6-12	YCC6-18	YCC6-25	YCC6-32	YCC6-38	YCC6-40	YCC6-50	YCC6-65	YCC6-80	YCC6-95				
Main circuit characteristic																	
Poles			3P														
Rated insulation voltage(Ui)	V	690															
Rated operating voltage(Ue)	V	220/230,380/400,660/690															
Rated thermal current(Ith), AC-1			20	20	32	40	50	50	60	80	80	125	125				
Rated operation current(Ie)	AC-3,380/400V	A	9	12	18	25	32	38	40	50	65	80	95				
	AC-3,660/690V	A	6.6	8.9	12	18	22	22	34	39	42	49	49				
	AC-4,380/400V	A	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44				
	AC-4,660/690V	A	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3				
Rated operational power(Pe)	AC-3,380/400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45				
	AC-3,660/690V	kW	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45				
	AC-4,380/400V	kW	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22				
	AC-4,660/690V	kW	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5				
Mechanical life			1200				1000			900			650				
Electrical life	AC-3	10000 times	110				90			65							
	AC-4		22				22			17							
Frequency of operation	AC-3	times/hour	1200				600										
	AC-4		300				300										
Connecting capability of main circuit terminal																	
Flexible wire	wire	mm <sup>2</sup>	1				1.5 6			2.5			4...50				
No terminal	2 wire	mm <sup>2</sup>	1...4				1.5...6			2.5...16			4...25				
Flexible wire	1 wire	mm <sup>2</sup>	1...4				1...6			2.5...25			4...50				
With terminals	2 wire	mm <sup>2</sup>	1...2.5				1...4			2.5...10			4...16				
Hard wire	1 wire	mm <sup>2</sup>	1...4				1.5...6		1.5...10			2.5...25			4...50		
No terminal	2 wire	mm <sup>2</sup>	1...4				1.5...			2.5...10			4...25				
Fastening torque	N·m		1.2				1.8			5			9				
Coil																	
Rated control voltage(Us)	50Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440														
	50/60Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440														
Allowed control circuit voltage(Us)	Operation	V	Installation inclination angle $\pm 22.5^\circ$ : 85%~110%Us; Installation inclination angle $\pm 5^\circ$ : 70%~120%														
	Release	V	Installation inclination angle $\pm 22.5^\circ$ : 20%~75%Us; Installation inclination angle $\pm 5^\circ$ : 20%~65%														
Power consumption of coil	Actuation	VA	60				70			200			200				
	Keep	VA	6-9.5				6-9.5			15-20			15-20				
	Consumption	W	1-3				1-3			6-10			6-10				
Auxiliary contacts																	
Auxiliary contacts specification	A		1NO+1NC														
Rated thermal current (Ith)	A		10														
Rated operating voltage (Ue)	AC	V	380														
	DC	V	220														
Rated control capacit	AC-15	VA	360														
	DC-13	W	33														
Certification	CCC, CE, TUV, CB																

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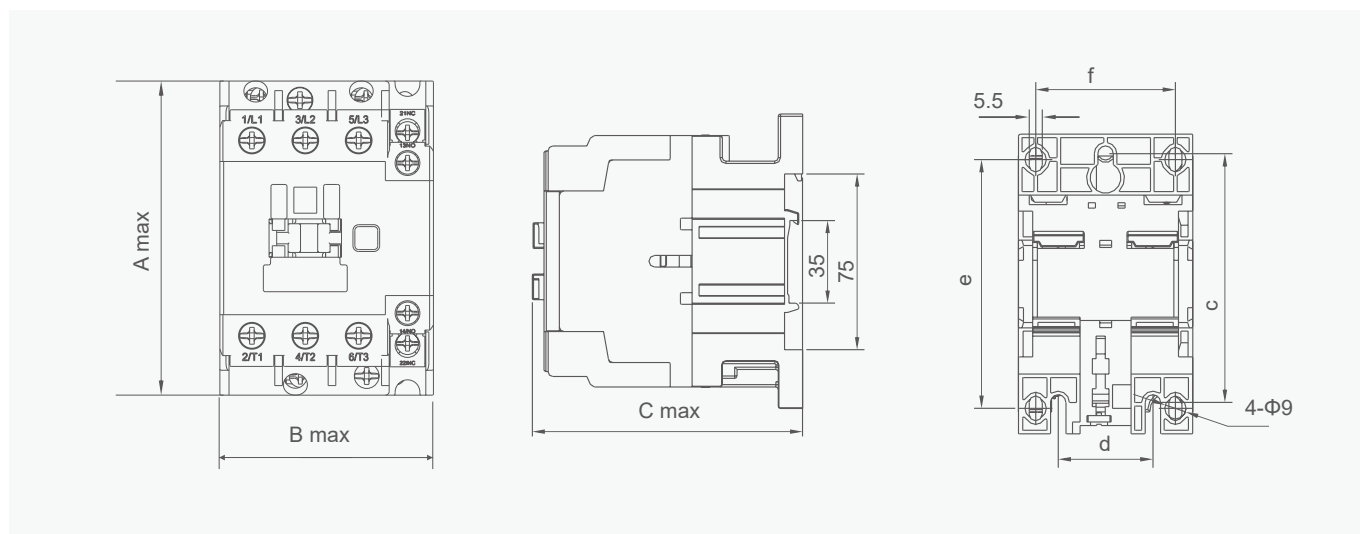
## YCC6 AC Contactor

### Overall and mounting dimensions(mm)

YCC6-09~38



YCC6-40~95







Type	A max	B max	B max	a	b	c	d	e	f
YCC6-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
YCC6-25, 32, 38	83	56.5	97	40	50/70	-	-	-	-
YCC6-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
YCC6-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67




# Motor Control & Protection

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F4-D.LA2-D,LA3-D Contact Block

Type	Product	Configuration of contacts	
		Number of N/o contact	Number of N/c contact
F4-DN20 F4-DN11 F4-DN02		2 1 0	0 1 2
F4-DN40 F4-DN31 F4-DN22 F4-DN13 F4-DN04		4 3 2 1 0	0 1 2 3 4
Type		Time-delay range	Number of time-delay contacts
LA2-DT0 LA2-DT2 LA2-DT4		0.1S~3S 0.1S~30S 10S~180S	1NO+1NC
LA3-DRO LA3-DR2 LA3-DR4		0.1S~3S 0.1S~30S 10S~180S	1NO+1NC











LX1-D Coil

Type	A max	Coil voltage Us(V) Frequency (Hz)	Coil voltage Us(V)													
			24	36	42	48	110	127	220	230	240	380	400	415	400	600
LX1-D2		50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	V5	N5	R5	X5
LX1-D4		60Hz	B6	C6	D6	E6	F6	G6	M6	P6	U6	Q6	V6	N6	R6	X6
LX1-D6		50/60Hz	B7	C7	D7	E7	F7	G7	M7	P7	U7	Q7	V7	N7	R7	X7

# Motor Control & Protection

## YCC6 AC Contactor

Derived products when the contactor is assembled with following accessory module

Derived products	Contactor	Accessory modular	Picture
Time-delay contactor		+ 	→ 
Reversing contactor		+ 	→ 
Magnetic starter		+ 	→ 
Auxiliary Contact		+ 	→ 
Changeover capacitor AC contactor		+ 	→ 
Dust cover		+ 	→ 

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# Motor Control & Protection

## YCC6 AC Contactor

### Specifications

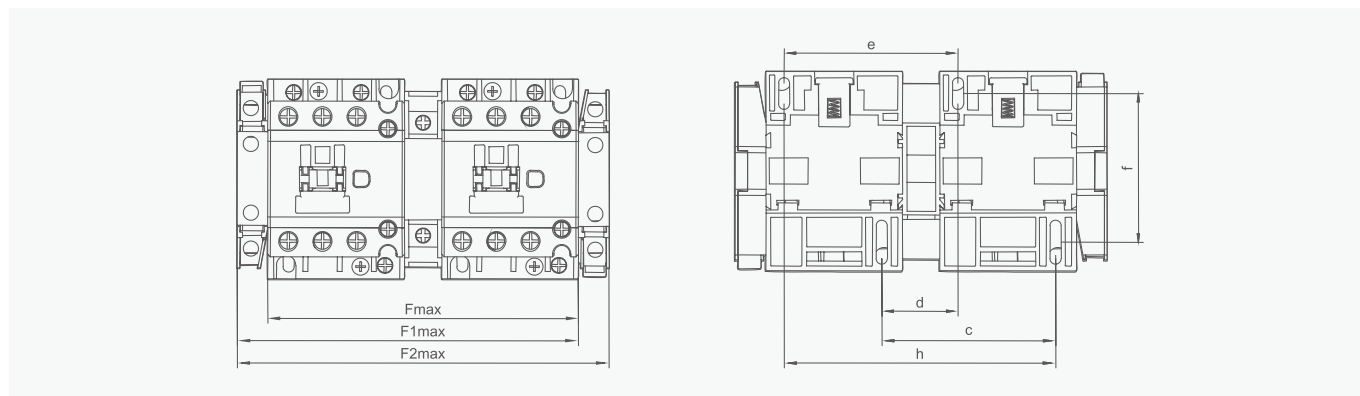


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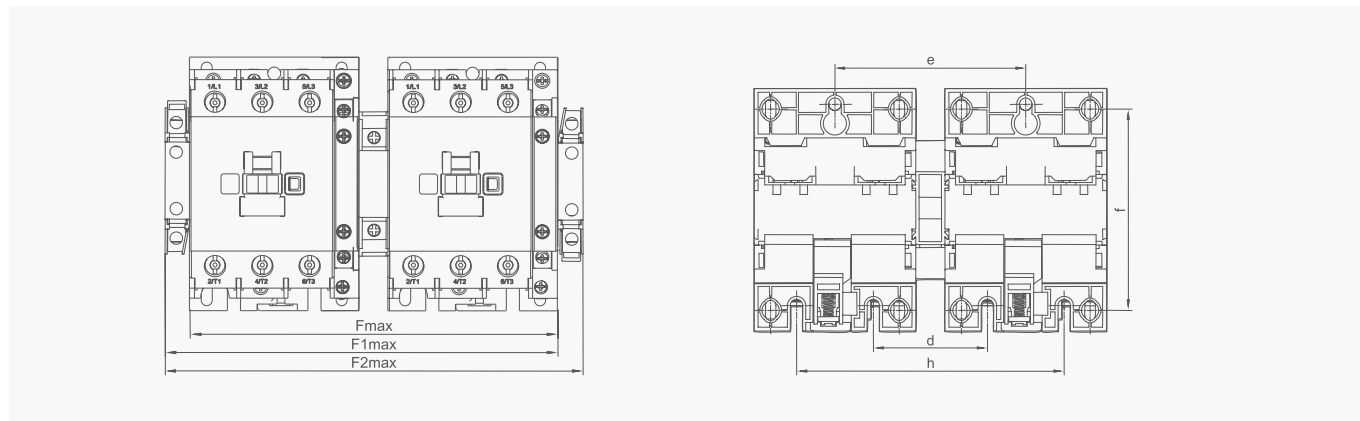
Type	Rated operation current(Ie)(A)	Rated thermal current (Ith)(A)	Rated operational power in category AC-3 (kW)	
			380V	660V
YCC6-09N	9	20	4	5.5
YCC6-12N	12	20	5.5	7.5
YCC6-18N	18	32	7.5	10
YCC6-25N	25	40	11	15
YCC6-32N	32	50	15	18.5
YCC6-38N	38	50	15	18.5
YCC6-40N	40	50	18.5	30
YCC6-50N	50	60	22	33
YCC6-65N	65	80	30	37
YCC6-80N	80	95	37	45
YCC6-95N	95	95	45	55

### Overall and mounting dimensions(mm)

YCC6-09~38N



YCC6-40~95N



Type	A max	B max	B max	a	b	c	d	e	f
YCC6-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
YCC6-25, 32, 38	83	56.5	97	40	50/70	-	-	-	-
YCC6-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
YCC6-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67