



# H8C

AC Contactor

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## Series AC Contactor



### Application

H8C series AC contactor is mainly applied to the circuit of AC 50Hz/60Hz, rated voltage up to 690V, and to the circuit with 380V load, rated current up to 95A in AC-3 using category. It is used for remote making and breaking circuits, and can also be used with proper thermal overload relay together as an electromagnetic starter to protect circuits from overload. This product conforms to standards IEC 60947-4-1.



### Normal operation and mounting conditions

1. Ambient temperature:  $-5^{\circ}\text{C}\sim+45^{\circ}\text{C}$ . Average temperature within 24h:  $\leq+35^{\circ}\text{C}$
2. Altitude:  $\leq 2000\text{m}$
3. Humidity: The air relative humidity under the highest temperature  $+40^{\circ}\text{C}$  cannot surpass 50%; Under the lowest temperature has a higher relative humidity, the wettest month' average lowest temperature cannot surpass  $+25^{\circ}\text{C}$ , and the average relative humidity cannot exceed 90%;
4. Pollution degree: class 3
5. Mounting category: III
6. Mounting condition: inclination between mounting plane and vertical plane not exceeds  $5^{\circ}$
7. No obvious shake and impact in mounting site.



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### Main Technical parameters

Model			H8C-09	H8C-12	H8C-18	H8C-25	H8C-32	H8C-40	H8C-50	H8C-65	H8C-80	H8C-95	
Main circuit characteristic													
Rated insulating voltage Ui(V)			690										
Convention thermal current Ith(A)	220V	AC-3	9	12	18	25	32	40	50	65	80	95	
		AC-3	9	12	18	25	32	40	50	65	80	95	
	660V	AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44	
		AC-3	6.6	8.9	12	18	21	34	39	42	49	55	
		AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3	
Controllable power of three phase squirrel case motor Pe(AC-3) kW	220V		2.2	3	4	5.5	7.5	11	15	18.5	22	22	
	380V		4	5.5	7.5	11	15	18.5	22	30	37	45	
	660V		5.5	7.5	9	15	18.5	30	33	37	45	55	
Operation frequency (times/h)	AC-3	1200						600					
	AC-4	300											
Electrical life (million times)	AC-3	100						80			60		
	AC-4	20						15			10		
Mechanical life(million times)			1000				800						
Coil													
Rated control circuit voltage(Us)		50Hz	24V、36V、110V、127V、220V、380V										
Allowable control circuit voltage (Us)		attraction	85%~110%Us										
		Release	20%~75%Us										
Coil power	Start VA	50~70						190~220					
	Holding VA	7~9.5						19~25					
	Power loss W	1.8~4						6~10					
Terminal connection capacity													
Flexible wire without terminals	Single cable(mm <sup>2</sup> )	1~4			1.5~6	1.5~10	2.5~10	2.5~25			4~50		
	Duad cable(mm <sup>2</sup> )	1~4			1.5~6	1.5~6	2.5~10	2.5~16			4~25		
Flexible wire with terminals	Single cable(mm <sup>2</sup> )	1~4			1~6	1~6	1~10	2.5~25			4~50		
	Duad cable(mm <sup>2</sup> )	1~2.5			1~4	1~4	1.5~6	2.5~10			4~16		
Stiff wire without terminals	Single cable(mm <sup>2</sup> )	1~4			1.5~6	1.5~6	1.5~10	2.5~25			4~50		
	Duad cable(mm <sup>2</sup> )	1~4			1.5~6	1.5~6	2.5~10	2.5~16			4~25		

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### Auxiliary contact technical parameters

Using category	Rated operation voltage (V)	Conventional thermal current(A)	Rated operation current (A)	Control capacity	
				Making	Breaking
AC-15	380	10	0.95	3600VA	360VA
DC-13	220		0.15	33W	33W

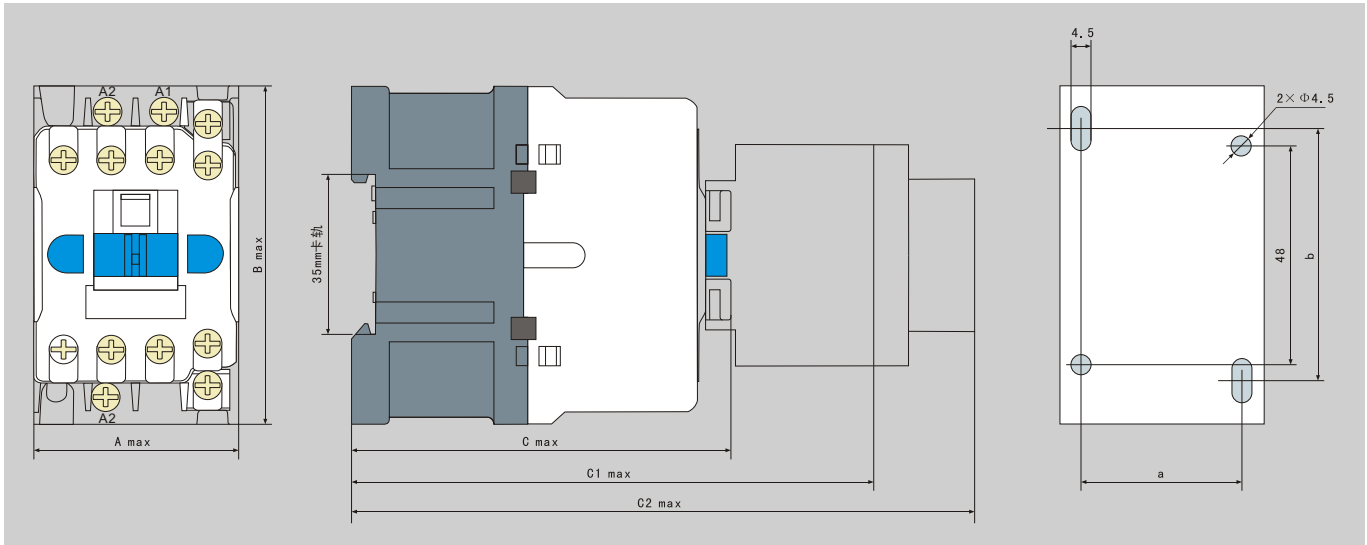
### Accessories

Front mount auxiliary contact block F4	Matched contactor	Model of accessories		F4-20	F4-11	F4-02	F4-40	F4-31	F4-22	F4-13	F4-04
		H8C-09~95	Contact	NO	2	1	0	4	3	2	1
	Contact	NC	0	1	2	0	1	2	3	4	

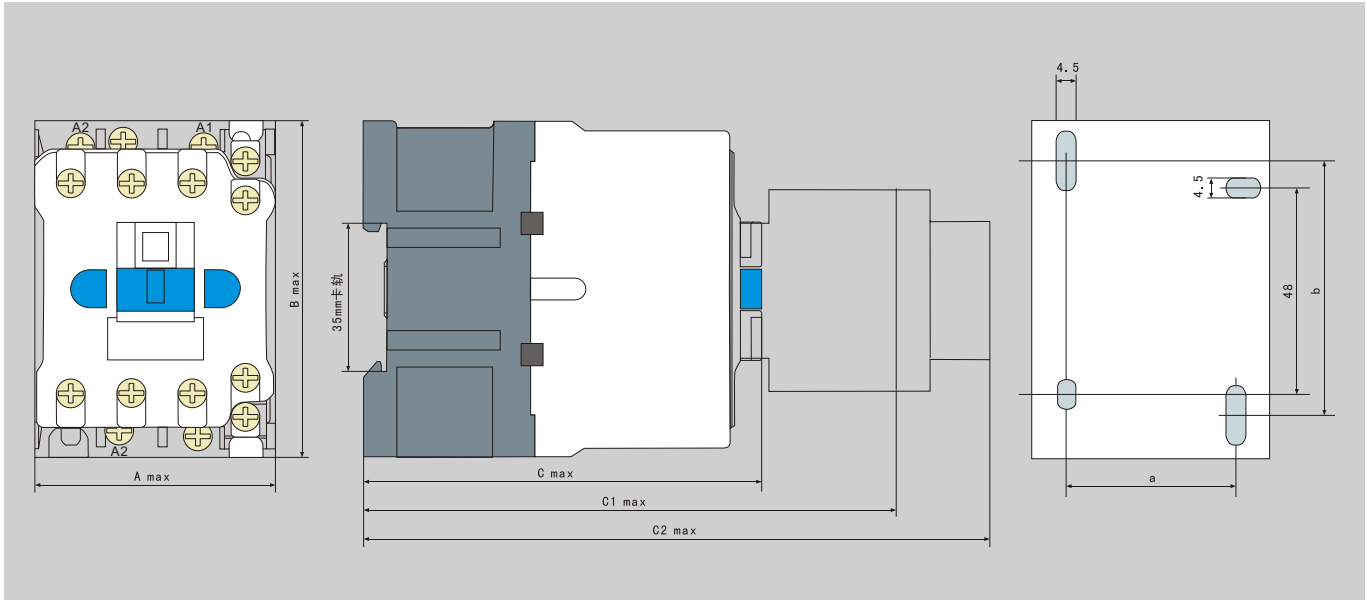
Air time delay contact	Matched contactor	Model of accessories		LA2-D20	LA2-D22	LA2-D24	LA3-D20	LA3-D22	LA3-D24
		H8C-09~95	Contact	NO	1	1	1	1	1
	Contact	NC	1	1	1	1	1	1	
Rated operation voltage (V)				660					
Rated insulating voltage Ui(V)				660					
Conventional thermal current Ith(A)				10					
Control capacity		AC-15	360VA						
		DC-13	33W						

### Overall and mounting size

1.H8C-09-18



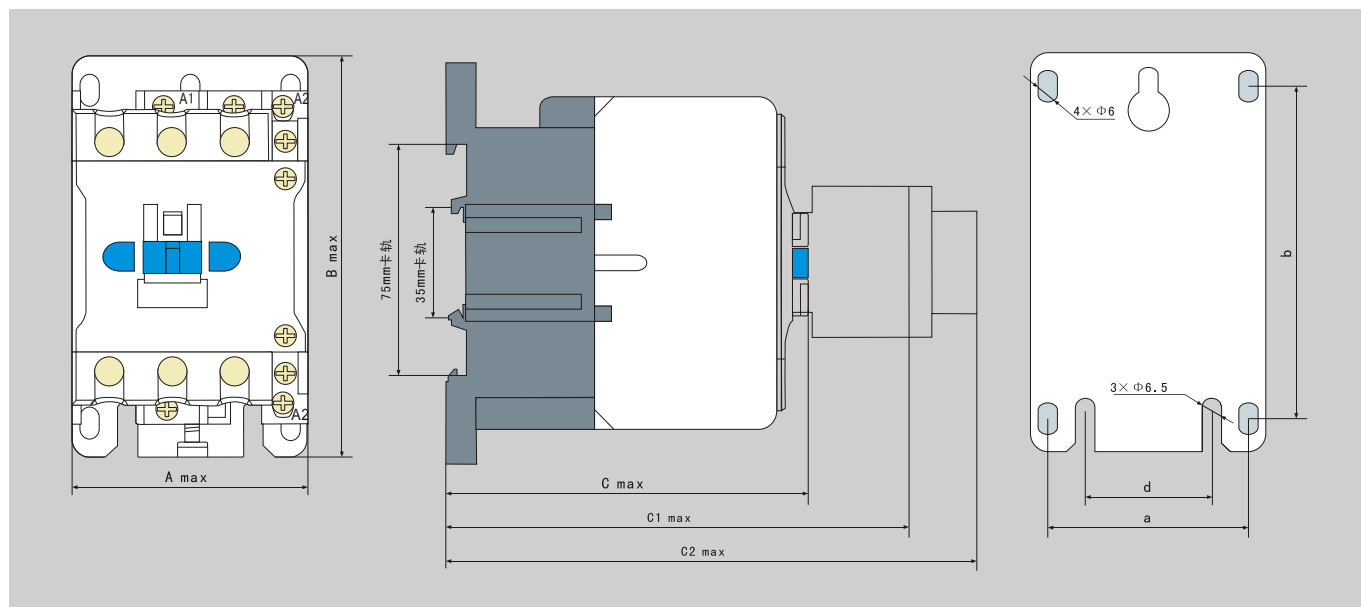
2.H8C-25、32



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3.H8C-40~95



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Unit:mm

Model	A max	B max	C max (No accessory)	C1 max (with F4)	C2 max (with LA2/LA3)	a	b	d
H8C-09、12	45.5	74.5	83	115	137	35	50/60	-
H8C-18	45.5	74.5	88	120	142	35	50/60	-
H8C-25、32	56.5	80.5	94.5	127	149	40	50/70	-
H8C-40~65	75.5	128	116	148	170	64	102/110	40
H8C-80、95	85.5	128	118.5	150.5	172.5	64	102/110	40

### Wiring diagram

