

# GLC1

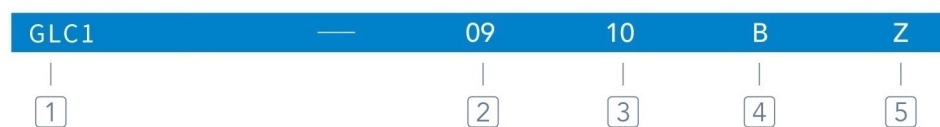
CJX2 SERIES AC CONTACTOR



## Product Overview

With the new generation of technical platform and automatic production and testing equipment, the new GLC1 AC contact fits the customer application needs which is in a good quality.

### Product Naming Rules



- 1 AC Contactor
- 2 Rated Current  
09A/12A/18A/25A/32A/40A/50A/65A/80A/95A
- 3 Contactor Type  
10:1NO, 01:1NC, 11:1NO1NC,  
004  
Main contact 4NO (except 18A and 32A),  
008  
Main contact 2NO+2NC(except 18A and 32A)
- 4 Control Voltage  
B:24V/C:36V/F:110V/M:220V/Q:380V
- 5 DC Control Circuit

## Technical Parameters

Power Consumption	
GLC1 AC Contactor	9~95A, totally 10 current specifications
Accessories	FG1 dust cover, F1 top auxiliary contact, FC1 side auxiliary contact, FJ1 mechanical interlock, FY1 air delayed head, FR1 surge suppressor
Certification	CCC/CE
Standards	GB/T 14048.1 GB/T 14048.4 Standards:IEC 60947-1 general provisions and IEC 60947-4-1 contactors
Conditions Of Normal Use,installation And Transportation	
Installation position	The installation site shall be vertical, and inclination at all directions shall not exceed $\pm 22.5^\circ$ ; installation class III.
Pollution class	Class 3
Ambient temperature	In normal operation, the ambient temperature range is between $-5^\circ\text{C}$ and $+40^\circ\text{C}$ , but average value in 24th is no more than $+35^\circ\text{C}$ ; Storage temperature: $-25^\circ\text{C} \sim +55^\circ\text{C}$ , a short time (24h) is allowed with maximum $+70^\circ\text{C}$ .
Altitude	Altitude at normal installation position does not exceed 2000m.
Humidity	The atmospheric relative humidity does not exceed 50% when the highest ambient temperature is $+40^\circ\text{C}$ . It is allowed to have a relative higher humidity under lower temperature e.g. up to 90% at $+20^\circ\text{C}$ . For occasional dew due to the temperature change, preventive measures shall be taken.
Protection grade	IP20

## Technical Parameters

Contactor Model	GLC1- 09 (09Z)	GLC1- 12 (12Z)	GLC1- 18 (18Z)	GLC1- 25 (25Z)	GLC1- 32 (32Z)	GLC1- 40 (40Z)	GLC1- 50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
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### Main circuit characteristics

Rated insulation voltage (Ui)	690										
Conventional thermal current(Ith)	20	20	32	40	50	60	80	80	100	100	
Rated operating current(Ie)	380V,AC-3	9	12	18	25	32	40	50	65	80	95
	380V,AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	660V,AC-3	6.6	8.9	10.6	18	21	34	39	42	49	49
	660V,AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Rated operating power(Pe)	380V,AC-3	4	5.5	7.5	11	15	18.5	22	30	37	45
	380V,AC-4	1.5	2.2	3	4	5	7.5	11	15	18.5	22
	660V,AC-3	5.5	7.5	9	15	18.5	30	33	37	45	45
	660V,AC-4	1.1	1.5	1.7	4	5.5	7.5	11	11	15	18.5

## Technical Parameters

Contactor Model		GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Mechanical durability	10,000 times	1200			1000		900			650	
Electrical durability	10,000 times	AC-3	110			90			65		
		AC-4	22				17			11	
Operation frequency	Time/hour	AC-3	1200			600					
		AC-4	300			300					

### Main circuit terminal wiring capability (mm<sup>2</sup>)

Soft wire	1 wire	1...4	1...6	1.5...10	2.5...10	2.5...25	4...50
Without terminal	2 wire	1...4	1...6	1.5...6	2.5...10	2.5...16	2.5...35
Soft wire	1 wire	1...2.5	1...4	1...4	2.5...16	2.5...16	4...50
With terminal	2 wire	1...2.5	1...4	1...4	2.5...10	2.5...16	2.5...25
Hard wire	1 wire	1...4	1...6	1.5...6	2.5...10	2.5...25	4...50
Without terminal	2 wire	1...4	1...6	1.5...6	2.5...10	—	—


### Coil

Rated control circuit voltage (Us)	AC 50/60Hz	V	24V/36V/110V/220V/380V	
	DC	V	24V/110V/220V	
Allowable control circuit voltage (Us)	Operation	V	85%~110%Us	
	Drop-out	V	AC20%~70%Us/DC 10%~70%Us	

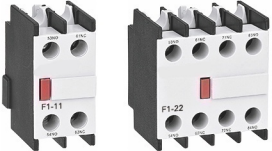
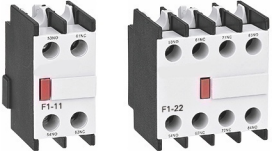
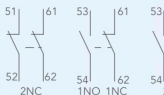
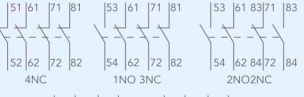

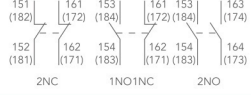
## Technical Parameters

Contactor Model		GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Coil power	Actuation VA	70			110		200				
	Holding VA	<9		<9.5	<14		<36.6				
	Heat dissipation W	1.8~2.7			3~4		6~10				
<b>Auxiliary contact</b>											
Contact specification		10/01					11				
Conventional thermal current(Ith)		A 10									
Rated control circuit voltage (Ue)	AC V	380									
	DC V	220									
Rated control capacity	AC-15 VA	360									
	DC-13 W	33									
Certification		CCC/CE									
<b>Coil voltage code &amp; coil frequency code</b>											
Coil Voltage Us(V)		24	36		110		220		380		
(50/60Hz) AC		B5	C5		F5		M5		Q5		
DC		BD	—		FD		MD		—		


## Accessories

FG1 Transparent Cover							
	Installation Position	Reference			Contactor Type		
	Top	FG1-18	GLC1-09~18				
		FG1-32	GLC1-25~32				
		FG1-65	GLC1-40~65				
FG1-95		GLC1-80~95					


  

F1/FC1 Auxiliary Contact							
	Installation position	Polo	Auxiliary contact	Contact point layout		Reference	Contactor type
				NO	NC		
	Top	2		1	1	F1-11	GLC1-09~95
				2	—	F1-20	
				—	2	F1-02	
		4		2	2	F1-22	
				4	—	F1-40	
				—	4	F1-04	
				3	1	F1-31	
1	3	F1-13					
	Side	2		0	2	FC1-02	GLC1-09~95
				1	1	FC1-11	
				2	0	FC1-20	


  

FJ1 Mechanical interlock module				
	Installation position	Interlock method	Reference	Contactor type
	Horizontal installation		;	FJ1-32E
		Mechanical interlock	FJ1-95E	GLC1-40~95

## Accessories

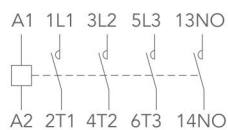
FY1 air delayed head						
	Installation position	Delay type	Wiring diagram	Contact point layout	Reference	Contactor type
	Top	Making time-delay			0.1~3s	FY1-02
0.1~30s					FY1-22	
10~180s					FY1-24	
Breaking time-delay				0.1~3s	FY1-30	
				0.1~30s	FY1-32	
				10~180s	FY1-34	

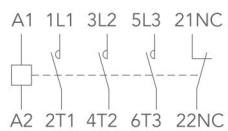
FR1 surge suppressor					
	Installation position	Circuit voltage range		Reference	Contactor type
		AC symbol	DC symbol		
Top	~	—	—	FR1-48	GLC1-09~95
				FR1-127	
				FR1-240	
				FR1-415	

## Wiring Diagram

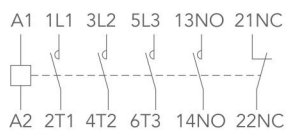
## GLC1-09~32 (Z)



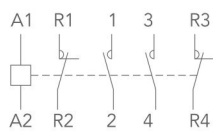
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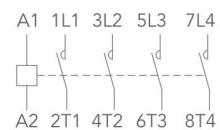
## GLC1-40~95 (Z)



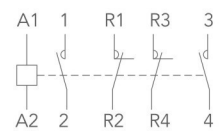
## GLC1-40008~95008 (Z)



## GLC1-09004~95004 (Z)



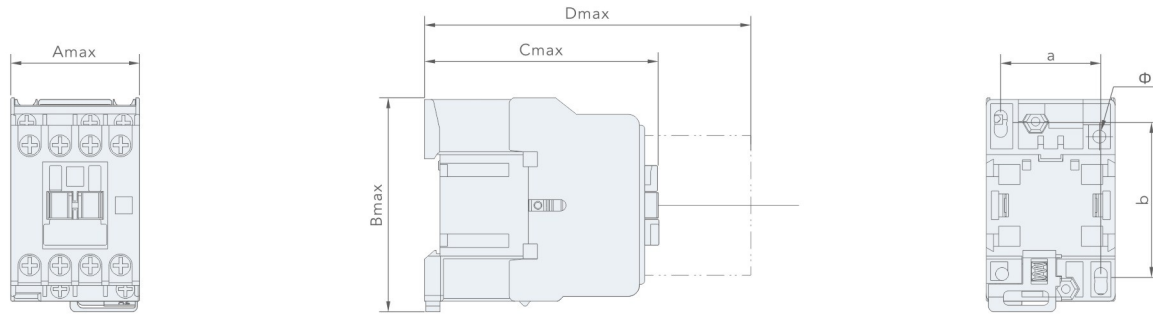
## GLC1-09008~25008 (Z)



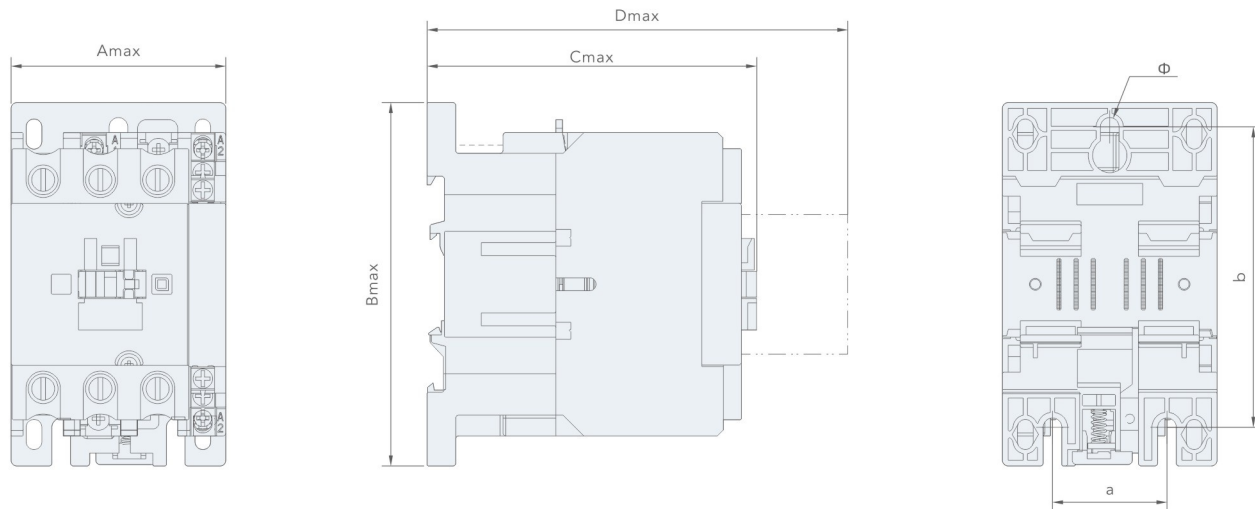


## Overall And Installation Dimensions

## GLC1-09~32



## GLC1-40~95



Model	Amax	Bmax	Cmax	Dmax	a	b	$\phi$
GLC1-09、12	47	76	86	124.5	35±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-09、12Z	47	76	116	154.5	35±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-18	47	76	91	129.5	35±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-18Z	47	76	122	160.5	35±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-25	58	86	98	136.5	40±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-25Z	58	86	131	169.5	40±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-32	58	86	102	140.5	40±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-32Z	58	86	138	176.5	40±0.5	50±0.5/60±0.6	4.5 <sub>0</sub> <sup>+0.48</sup>
GLC1-40、50、65	79	128	119	157.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-40Z、50Z、65Z	79	128	172	210.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-40004、50004、65004	86	128	116	154.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-40004Z、50004Z、65004Z	86	128	172	210.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-40008、50008、65008	86	128	127	154.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-40008Z、50008Z、65008Z	86	128	183	210.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80、95	87	128	127	165.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80Z、95Z	87	128	183	221.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80004、95004	98	128	124	162.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80004Z、95004Z	98	128	180	218.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80008、95008	98	128	136	162.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>
GLC1-80008Z、95008Z	98	128	192	218.5	40±0.5	100±0.7/110±0.7	6.5 <sub>0</sub> <sup>+0.58</sup>

### Contactor Selection Table

Product name	Current Specification	Auxiliary Contact	Coil frequency
GLC1	09A	10	M
	09:09A		
	12:12A		
	18:18A		
	25:25A		
	32:32A	10:1NO	
	40:40A	01:1NC	
	50:50A	11:1NO1NC	
	65:65A		
	80:80A		
	95:95A		

Motor power Pe(KW AC-3, 380V)	Rated current Ie(A)	Auxiliary Contact		Reference
		NO	NC	
4	9	1	—	GLC10910*
		—	1	GLC10901*
		4	—	GLC109004*
		2	2	GLC109008*
5.5	12	1	—	GLC11210*
		—	1	GLC11201*
		4	—	GLC112004*
		2	2	GLC112008*
7.5	18	1	—	GLC11810*
		—	1	GLC11801*
11	25	1	—	GLC12510*
		—	1	GLC12501*
		4	—	GLC125004*
		2	2	GLC125008*
15	32	1	—	GLC13210*
		—	1	GLC13201*
18.5	40	1	1	GLC14011*
		4	—	GLC140004*
		2	2	GLC140008*
22	50	1	1	GLC15011*
		4	—	GLC150004*
		2	2	GLC150008*
30	65	1	1	GLC16511*
		4	—	GLC165004*
		2	2	GLC165008*
37	80	1	1	GLC18011*
		4	—	GLC180004*
		2	2	GLC180008*
45	95	1	1	GLC19511*
		4	—	GLC195004*
		2	2	GLC195008*

Note: The number of poles is not reflected in the model, 3-pole contactor represents the auxiliary contacts of 10, 01, 11, 4-pole contactor represents 004 or 008. Only \* means coil voltage code + frequency code. If the contactor of DC control circuit voltage needs to be purchased, order code increases Z, such as GLC10910Z\*.