



GYHC Home AC Contactors

GYHC series analog-digital AC contactors adopt a new technology platform and apply automated production and testing equipment to create high-end contactors with super quiet and long life. Transparent clamshell design, high-end material selection, RoHS standard, visual window, and rich models and specifications.

Product Feature

GYHC contactors can be used for remote control: lighting, heating, ventilation, public hot water, mechanical ventilation systems, low sensitivity micro load environments; Advanced technologies such as 3D design, 3D printing, tolerance analysis and simulation analysis are used for product development; Finest material selection & Standard: Custom plastic, brand silver point, elite craft, RoHS compliant;

Product model and meaning

GYHC	16	10	AC230
Product model	Rated Current 16A/20A/25A 32A/40A/63A	Contactor Type 1P 10:1NO/01:1NC 2P 20:2NO/11:1NO+1NC/02:2NC 3P 30:3NO/03:3NC 4P 40:4NO/31:3NO+1NC/22:2NO+2NC/04:4NC	Control Voltage AC24V/AC48V/AC110V AC230V/DC12V/DC24V

Technical Specification

GYHC	
Rated operational voltage(Ue)	1P/2P:250V AC 3P/4P:400V AC
Frequency	50Hz
Electrical durability	100000 times
Maximu number of switching operation a day	100 times
Rated insulation voltage (Ui)	500V AC
Pollution class	2
Rated impulse withstand voltage (Uimp)	4kV
Protection Grade(IEC/EN 60529)	Contactor only: IP20; Contactor in modular enclosure: IP40
Operating temperature	-5°C~+60°C
Storage Temperature	-40°C~+70°C
Tropicalization(IEC/EN 60068-1)	Treatment 2 (relative humidity 95% at 55°C)
Certification	CCC/CE
ELSV compliance (extra low safety voltage) for 12/24/48V AC versions	
The product control conforms to the SELV(safety extra low voltage)requirements	
In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C. It is necessary to use a spacer between each contactor.	

External dimensions

		GYHC-16A/20A/25A		GYHC-32A/40A/63A	
	W	2P	4P	2P	4P
	D	18	36	36	54
	H	68	68	68	68
	H	81	81	85	85

Technical Parameters

Tape	Rated current (In)		Control voltage(V)	Contact	Width (A multiple of 9mm)	
	AC-7a	AC-7b				
1P	16A	6A	AC(50/60Hz): 24V/48V /110V/230V DC:12V/24V	1NO 1NC	2	
	20A	7A				
	25A	9A				
2P	16A	6A		2NO 2NC 1NO1NC	2	
	20A	7A				
	25A	9A				
	32A	12A				
	40A	15A				
3P	16A	6A		3NO 3NC	2	
	20A	7A				
	25A	9A				
	32A	12A				
	40A	15A				
4P	16A	6A	4NO 4NC 2NO2NC 3NO1NC	2		
	20A	7A				
	25A	9A				
	32A	12A				
	40A	15A				
	63A	20A				
	16A	6A			4	2
	20A	7A				
	25A	9A				
	32A	12A				
40A	15A	4	4			
63A	20A					

Power Consumption

Type	Rated Current (In)		Control voltage (V AC)	Power Consumption		Max. Power
	AC-7a	AC-7b		Holding	Actuation	
1P	25A	9A	230...240	2.7VA	9.2VA	1.2W
2P	16A	6A	230...240	2.7VA	9.2VA	1.2W
	20A	7A	230...240	2.7VA	9.2VA	1.2W
	25A	9A	24	3.8VA	15VA	1.3W
			230...240	2.7VA	9.2VA	1.2W
			230...240	2.7VA	9.2VA	1.2W
3P	32A	12A	230...240	4.6VA	34VA	1.6W
	40A	15A	230...240	4.6VA	34VA	1.6W
	63A	20A	230...240	4.6VA	34VA	1.6W
	16A	6A	230...240	4.6VA	34VA	1.6W
	20A	7A	230...240	4.6VA	34VA	1.6W
	25A	9A	230...240	4.6VA	34VA	1.6W
	32A	12A	230...240	6.5VA	53VA	2.1W
4P	40A	15A	230...240	6.5VA	53VA	2.1W
	63A	20A	230...240	6.5VA	53VA	2.1W
	16A	6A	230...240	4.6VA	34VA	1.6W
	20A	7A	230...240	4.6VA	34VA	1.6W
	25A	9A	24	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
			24	4.6VA	34VA	1.6W
			230...240	4.6VA	34VA	1.6W
	32A	12A	230...240	6.5VA	53VA	2.1W
	40A	15A	230...240	6.5VA	53VA	2.1W
63A	20A	230...240	6.5VA	53VA	2.1W	



GLC1 AC contactor

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 model and meaning

GLC1	16	10	B	Z
Product model	Rated Current 09A/12A/18A/25A/ 32A/40A/50A/ 65A/80A/95A	Contact Type 10:1NO, 01:1NC, 11:1NO1NC 004:Main contact 4NO (except 18A and 32A) 008:Main contact 2NO+2NC (except 18A and 32A)	Control Voltage B:24V C:36V F:110V M:220V Q:380V	DC Control Circuit

Technical Specification

GLC1	
GLC1 AC Contactor	9-95A, totally 10 current specifications
Accessories	FG1 dust cover, F1 top auxiliary contact, FCI side auxiliary contact, FJ1 mechanical interlock, FY1 air delayed head, FR1 surge suppressor
Certification	CCC/CE
Standards	Standards: IEC 60947-1 general provisions and IEC 60947-4-1 contactors
Installation position	The installation site shall be vertical, and inclination at all directions shall not exceed ±22.5°; installation class II.
Pollution class	Class 3
Ambient temperature	In normal operation, the ambient temperature range is between -5°C and +40°C, but average value in 24h is no more than +35°C; Storage temperature: -25°C~+55°C, a short time (24h) is allowed with maximum +70°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°C, it is allowed to have a relative higher humidity under lower temperature e.g. up to 90% at +20°C. For occasional dew due to the temperature change, preventive measures shall be taken.
Protection grade	IP20

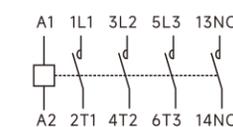
Main circuit characteristics	Contact Model	GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Rated insulation voltage (Ui)		690									
Conventional thermal current (Ith)		20	20	32	40	50	60	80	80	100	100
Rated operating current (Ie)	380V, AC-3	9	12	18	25	32	40	50	65	80	95
	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
Mechanical durability	10000 times	1200			1000			900			650
Electrical durability	10000 times	AC-3		110		90		65		11	
		AC-4		22		17		11			
Operation frequency	Times/hour	AC-3			1200			600			300
		AC-4			300						

Main technical parameters

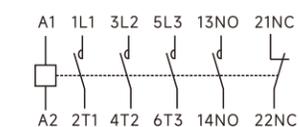
Contact Model	GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Main circuit terminal wiring capability (mm ²)										
Soft wire	1 wire	1...4	1...6	1.5...10	2.5...10	2.5...25	4...50			
Without terminal	2 wire	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	1.5...6	1.5...6	2.5...10	2.5...25	4...50			
Without terminal	2 wire	1...4	1.5...6	1.5...6	2.5...10	-	-			
Coil										
Rated control circuit voltage (Us)	AC 50/60Hz	24V/36V/110V/220V/380V								
	DC V	24V/110V/220V								
Allowable control circuit voltage (Us)	Operation V	85%~110%Us								
	Drop-out V	AC 20%~70% Us / DC 10%~70% Us								
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			
Auxiliary contact										
Contact specification	10/01						11			
Conventional thermal current (Ith)										
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										
Coil voltage code & coil frequency code										
Coil Voltage Us(V)	24	36	110	220	380					
AC (50/60Hz)	B5	C5	F5	M5	Q5					
DC	BD	-	FD	MD	-					

Wiring Diagram

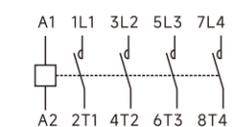
GLC1-09~32(Z)



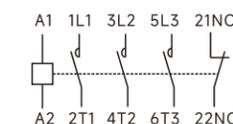
GLC1-40~95(Z)



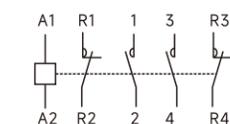
GLC1-09004~95004(Z)



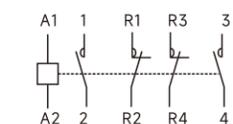
or



GLC1-40008~95008(Z)

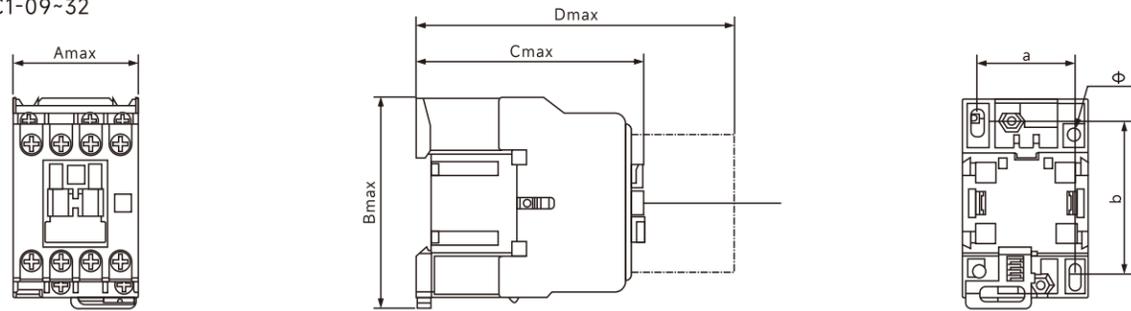


GLC1-09008~25008(Z)

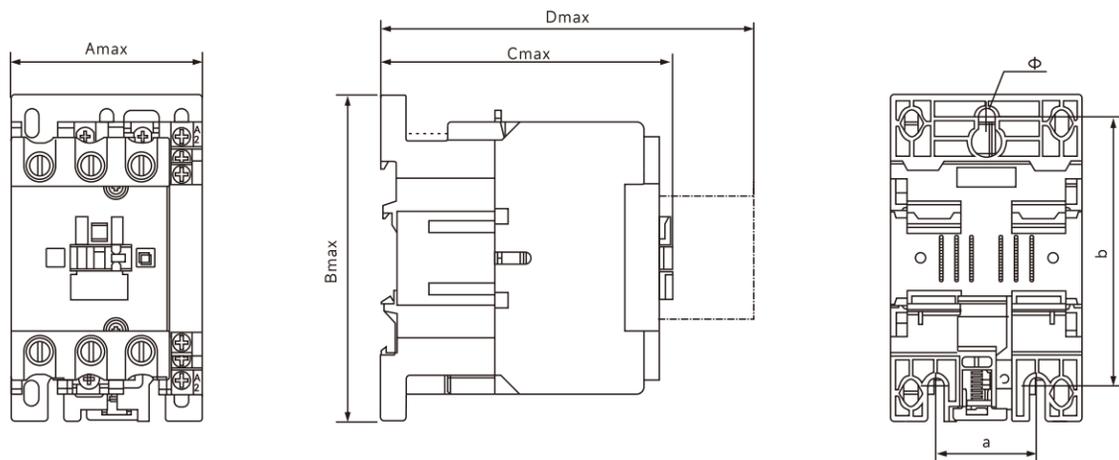


▶ Outline Overall And Installing Dimensions

GLC1-09~32



GLC1-40~95



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

▶ Motor power Pe

Motor power	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

GYHC
Contactors

**GLC1
Contactors**

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB

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 08.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 GLC1 0910Z*



GYC1 Contactor

In circuit of Ac 50\60Hz, voltage up to 1000V, current up to 600A, controlling motors of different types. Control resistance, inductive, capacitive loads: heating, lighting, power compensation and transformer. Control distribution circuit, industrial distribution, green energy distribution. For harsh environment and frequent operations, quick operating coils are recommend.

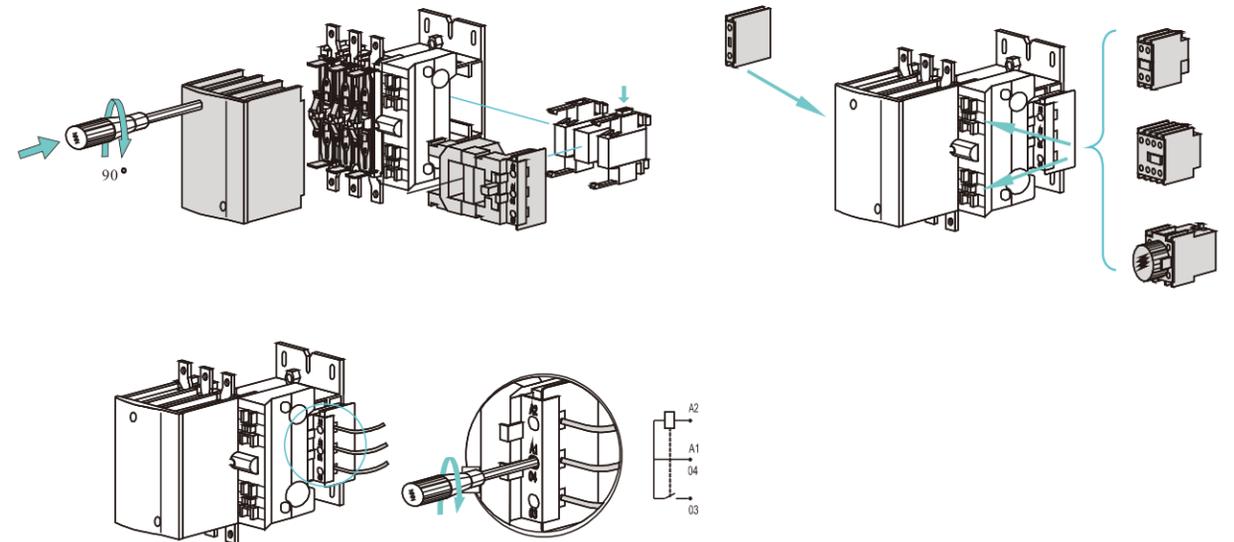
Technical Specification

Contactors		GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800
Rated operational current A	le max AC-3(Ue≤440V)	115	150	185	225	265	330	400	500	630	780	800
	le max AC-1(θ≤40°C)	200	250	275	315	350	400	500	700	1000	1600	1000
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	2、3or4	2、3or4	2、3or4	2、3or4	2、3or4	3
Rated operational power KW AC-3 3、4poles	220/240V	30	40	55	63	75	100	129	147	200	220	220
	380/400V	55	75	90	100	132	160	200	250	335	400	400
	415V	59	80	100	110	140	180	220	280	375	425	425
	440V	59	80	100	110	140	180	220	280	375	425	425
	500V	75	90	110	129	160	200	257	335	400	450	450
	660/690V	80	100	120	129	180	220	280	335	450	475	475
	1000V	65	65	100	140	147	160	185	335	450	450	450
(SCPD) Short-circuit protection by fuse	Model	RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-3	RT16-3	RT16-5	RT16-4
	Rated current	200	250	315	315	400	500	500	500	630	1600	800
Optional parts		Auxiliary contact blocks: ZTCF3					Air time delay auxiliary contacts: ZTCST、ZTCSSR、ZTCSS					
Weight (Kg)		3.6	3.7	4.6	4.7	7.1	8.5	8.5	10.8	17.4	40.0	19.0
Product No.	3 pole	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010
	4 pole	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	
	2 pole						0025	0026	0027	0028	0029	

Main technical parameters

Contactors		GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800		
Number of Poles		3/4or4	3/4or4	3/4or4	3/4or4	3 4/3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	3		
Rated operational current (Ue≤400V)	In AC-3,θ≤55°C	A	115	150	185	225	265	330	400	500	630	780	800	
	In AC-1,θ≤40°C	A	200	250	275	315	350	400	500	700	800	1600	1000	
Rated operational voltage (Ue)	Max.	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Frequency limits	Frequency under operating current	Hz	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}	16 ^{2/3}		
			...200	...200	...200	...200	...200	...200	...200	...200	...200	...200		
Conventional thermal current	θ≤40°C	A	200	250	275	315	350	400	500	700	900	1600	1000	
Making capacity	GB14048.4	A	Making current 10Xle(AC-3) or 12Xle(AC-4)											
Breaking capacity I rms	GB14048.4	A	Making and breaking current 8Xle(AC-3) or 10Xle(AC-4)											
Short time rating From cold state, no current in previous 60 minsθ≤40°C	10s	A	1100	1200	1500	1800	2200	2650	3600	4200	5050	6250	5500	
	30s	A	640	700	920	1000	1230	1800	2400	3200	4400	5600	4600	
	1min	A	520	600	740	850	950	1300	1700	2400	3400	4600	3600	
	3min	A	400	450	500	560	620	900	1200	1500	2200	3000	2600	
	10min	A	320	350	400	440	480	750	1000	1200	1600	2200	1700	
Average impedance per pole	lth 50Hz	mΩ	0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.10	0.12	
Power dissipation per pole for the above operational currents	AC-3	W	5	8	12	16	21	30	42	45	48	60	77	
	AC-1	W	15	22	25	32	37	45	65	88	77	250	120	
Cablingθ≤55°C	The maximum cross-sectional area number of cables dimension of cables	mm ²	2	2	2	2	2	2	2	2	2	2	2	
			20x3	25x3	25x3	32x3	32x4	30x5	30x5	40x5	60x5	100x5	60x5	
		Cable with tabs	mm ²	95	120	150	185	240	240	2*150	2*240	-	-	-
		Cables with connectors	mm ²	95	120	150	185	240	-	-	-	-	-	-
		Bolt diameter	mm	Φ6	Φ8	Φ8	Φ10	Φ10	Φ10	Φ10	Φ10	Φ12	Φ12	Φ12
Tightening torque	Cable connetion	N.m	10	18	18	35	35	35	35	35	58	58	58	

Scheme





GYC2 Contactor

In circuit of Ac 50\60Hz, voltage up to 1000V, current up to 600A, controlling motors of different types.
Control resistance, inductive, capacitive loads: heating, lighting, power compensation and transformer
Control distribution circuit, industrial distribution, green energy distribution.
For harsh environment and frequent operations, quick operating coils are recommend.

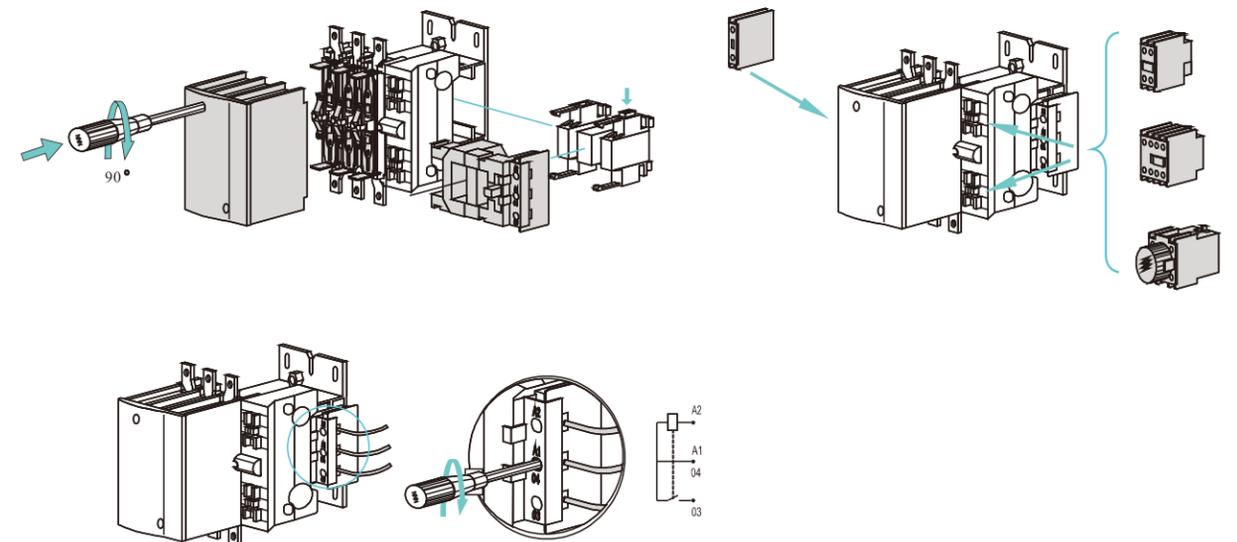
Technical Specification

Contactors		GYC2 115	GYC2 150	GYC2 170	GYC2 205	GYC2 245	GYC2 300	GYC2 410	GYC2 475	GYC2 620
Rated operational current A	le max AC-3(Ue≤440V)	115	150	170	205	245	300	410	475	620
	le max AC-1(θ≤40°C)	200	200	200	275	315	400	500	700	900
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3	3	3	3 or 4	2、3 or 4	2、3or4	2、3or4	2、3or4	2、3or4
Rated operational power KW AC-3 3、4poles	220/240V	30	40	55	63	75	100	129	147	200
	380/400V	55	75	90	100	132	160	200	250	335
	415V	59	80	100	110	140	180	220	280	375
	440V	59	80	100	110	140	180	220	280	375
	500V	75	90	110	129	160	200	257	335	400
	660/690V	80	100	110	140	180	220	280	355	450
(SCPD) Short-circuit protection by fuse	Model	RT16-1	RT16	RT16	RT16	RT16-3	RT16-3	RT16-3	RT16-3	RT16-3
	Rated current	125	160	180	250	250	400	500	500	630
Optional parts		Auxiliary contact blocks: ZTCF3 Air time delay auxiliary contacts: ZTCST、ZTCSSR、ZTCSS Flip auxiliary contacts:ZTCF3D								
Weight (Kg)	3 pole	2.25	2.25	2.25	4.7	4.7	8.2	8.5	10.8	17.4
Product No.	4 pole	0050	0051	0052	0053	0054	0055	0056	0057	0058
	2 pole				0063	0064	0065	0066	0067	0068
						0070	0071	0072	0073	

Main technical parameters

Contactors		GYC2 115	GYC2 150	GYC2 170	GYC2 205	GYC2 245	GYC2 300	GYC2 410	GYC2 475	GYC2 620	
Number of Poles		3	3	3	3or4	3or4	3or4	2、3or4	2、3or4	2、3or4	
Rated operational current (Ue≤400V)	In AC-3,θ≤55°C	A 115	150	170	205	245	300	410	475	620	
	In AC-1,θ≤40°C	A 200	200	200	275	315	400	500	700	900	
Rated operational voltage (Ue)	Max.	V 1000	1000	1000	1000	1000	1000	1000	1000	1000	
Frequency limits	Frequency under operating current	Hz	25	25	25	16 ^{2/3}					
			...400	...400	...400	...200	...200	...200	...200	...200	
Conventional thermal current	θ≤40°C	A 200	200	200	275	315	400	500	700	900	
Making capacity	GB14048.4	A	Making current 10Xle(AC-3) or 12Xle(AC-4)								
Breaking capacity	GB14048.4	A	Making and breaking current 8Xle(AC-3) or 10Xle(AC-4)								
Short time rating From cold state, no current in previous 60 minsθ≤40°C	10s	A 950	1200	1200	1500	1800	2650	3600	4200	5050	
	30s	A 720	820	820	920	1000	1800	2400	3200	4400	
	1min	A 550	580	580	740	850	1300	1700	2400	3400	
	3min	A 340	350	350	500	560	900	1200	1500	2200	
	10min	A 200	250	250	400	440	750	1000	1200	1600	
Average impedance per pole	lth 50Hz	mΩ 0.6	0.6	0.6	0.32	0.3	0.28	0.24	0.2	0.12	
Power dissipation per pole for the above operational currents	AC-3	W 7.9	13.5	17.5	13.5	18	25	40	45	48	
	AC-1	W 24	24	24	26	32	44	70	98	120	
Cablingθ≤55°C	The maximum cross-sectional area number of cables dimension of cables	mm ² 2	2	2	2	2	2	2	2	2	
		18x3	18x3	18x3	25x3	30x4	30x5	30x5	40x5	60x5	
Operating voltage (θ≤55°C)	Cable with tabs	mm ² 120	120	120	150	185	240	2*150	2*240	-	
	Cables with connectors	mm ² 120	120	120	150	185	-	-	-	-	
	Bolt diameter	mm Φ8	Φ8	Φ8	Φ8	Φ10	Φ10	Φ10	Φ10	Φ12	
Tightening torque	Cable connetion	N.m 18	18	18	18	35	35	35	35	58	

Scheme



GYHC Contactors

GLC1 Contactors

GYC1 Contactors

GYC1M Mini Contactors

GYPV DC Fuse Holder

GYCM3 MCCB

G2R ATS

GATS-GA ATS

GATS-G ATS

HGL Isolation Switches

GYW1 ACB

GYC3 Permanent magnetic latching contactors

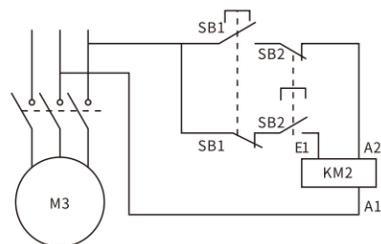
Permanent magnetic latching, power on in rush, power off sealed, power on release. For conditions require voltage shock prevention, energy saving, noise free and no-power sealed contactors.



Technical Specification

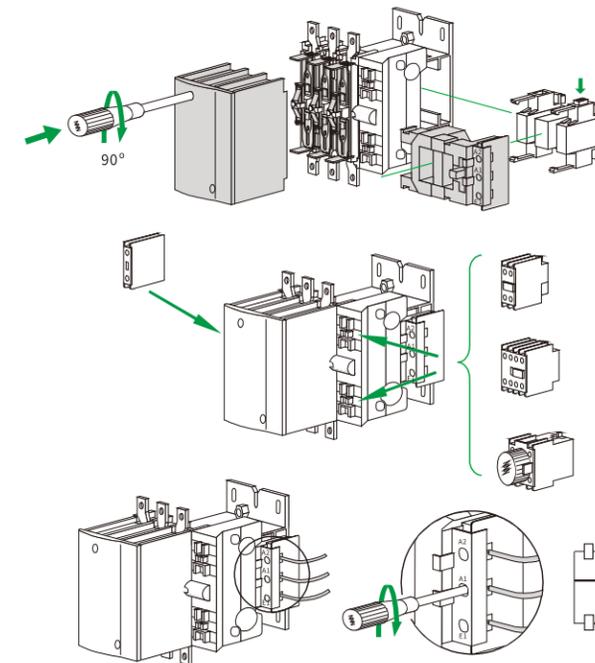
Contactors		GYC3 115	GYC3 150	GYC3 185	GYC3 225	GYC3 265	GYC3 330	GYC3 400	GYC3 500	GYC3 630
Rated operational current A	le AC3(Ue 380V)	115	150	185	225	265	330	400	500	630
	le AC1(Ue 380V)	200	250	275	315	350	400	500	700	900
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	2、3or4	2、3or4	2、3or4	2、3or4
Rated operational power three-phase motors KW AC-3 50HZ	220/240V	30	40	55	63	75	100	110	147	200
	380/400V	55	75	90	100	132	160	200	250	335
	415V	59	80	100	110	140	180	220	280	375
	440V	59	80	100	110	140	180	220	280	375
	500V	75	90	110	129	160	200	257	335	400
	660/690V	80	100	120	140	180	220	280	355	450
(SCPD) Short-circuit protection by fuse type "2"	Model	RT16-2	RT16-2	RT16-3	RT16-3	RT16-3	RT16-4	RT16-4	RT16-4	RT16
	Rated current	200	250	315	315	400	500	500	500	630
Optional parts		Instantaneous contact: ZTCF3, delay contact: ZTCST, ZTCSSR Instantaneous auxiliary contact: ZTCF3. Time delay auxiliary contact:ZTCST、ZTCSSR								
Weight (Kg)		3.6	3.7	4.6	4.7	7.1	8.4	8.5	10.8	17.4
Product No.	3 pole	0100	0101	0102	0103	0104	0105	0106	0107	0108
	4 pole	0109	0110	0111	0112	0113	0114	0115	0116	0117
	2 pole						0118	0119	0120	0121

Wiring diagram



Sb1 is the contactor suction control button
SB2 is the contactor release control button

Scheme



GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB



GYC1M Mini Contactor

- Small volume, large capacity, high aesthetic value
- High reliability, tested according to vibration resistance standards
- Electrical performance, brass static plates and coil connectors
- Complete accessories and convenient selection

Product model and definition

GY	C	1	-	06	M	10	Z	N	24V	50
Enterprise code	AC contactor	Design serial number	Contact type: 10: 1NO 01: 1NC 03: Main contact 3NC 04: Main contact 4NO 08: Main contact 2NO+2NC	Mini	Rated current: 06A/09A/ 12A/16A	Z: DC	Interlocking reversible products Omit not written, single product Omitting: Communication	Coil voltage: AC:24V/36V/48V/ 110V/125V/220V/ 380V/400V/415V DC:12V/24V/36V/ 48V/110V/127V/ 220V/240	Frequency: 50Hz、 50/60Hz	

Product features

- ✓ AC contactor: 6-16A, with a total of 4 current specifications
- ✓ Certification: CCC, CQC, CE, CB
- ✓ Attachment: LA-KN Top Auxiliary Contact and Chain
- ✓ Compliant with standards: IEC60947-160947-4-1, GB14048.4, GB14048.1

Capacity reduction coefficient for high-altitude environments

Altitude (m)	2000	3000	4000
Rated operating voltage Ui	1	0.9	0.8
Rated operating current Ie	1	0.92	0.9

Temperature reduction coefficient in abnormal working environment

Environmental temperature (°C)	40	50	60	70
correction factor	1	0.875	0.75	0.625

Main circuit wiring/Control circuit connection

Flexible wire without wiring terminals		mm ²	1x0.75-2x4
Flexible wire with wiring terminals		mm ²	1x0.34-1x1.5+1x2.5
Hard wire without wiring terminals		mm ²	1x1.5-2x4
Tool	Cross screwdriver		Ph2
	Flat headed screwdriver		Ø6
Tightening torque		N.m	1.2

Product features

Contactor model			GYC1-06M	GYC1-09M	GYC1-12M	GYC1-16M
Number of poles			3P/4P	3P/4P	3P/4P	3P/4P
Rated working current (Ie) AC-3	220/230V	A	6	9	12	16
	380/400V	A	6	9	12	16
	660/690V	A	3.8	4.9	4.9	4.9
Rated working current (Ie) AC-4	220/230V	A	2.6	3.5	5	5
	380/400V	A	2.6	3.5	5	5
	660/690V	A	1	1.5	2	2
Rated working voltage (Ue)		V	220V/230V、380V/400V、660V/690V			
Rated working power (Pe) AC-3	220/230V	kW	1.5	2.2	3	4
	380/400V	kW	2.2	4	5.5	7.5
	660/690V	kW	3	4	4	4
Rated working power (Pe) AC-4	220/230V	kW	0.55	0.75	1.1	1.1
	380/400V	kW	1.1	1.5	2.2	2.2
	660/690V	kW	0.75	1.1	1.5	1.5
Agreed heating current (Ith)	θ≤40°C	A	20			
Rated making capacity (380V)	Complies with IEC60947		10xle (AC-3 usage category); 12xle (AC-4 usage category)			
Rated breaking capacity (380V)	GB14048 standard		8x e (AC-3 usage category); 10xle (AC-4 usage category)			
Short time withstand current	10s	A	80	80	100	100
Short circuit protection	No thermal overload relay fuse gG		25			
Electrical lifespan (380V)	AC-3	10000 times	120			
	AC-4	10000 times	2			
Built in auxiliary contact module			The contactor is equipped with one normally open or normally closed contact			
Current suppressor module			Can be equipped with built-in resistance and capacitance circuits			
Applicable manual overload relay		A	0.11-16			

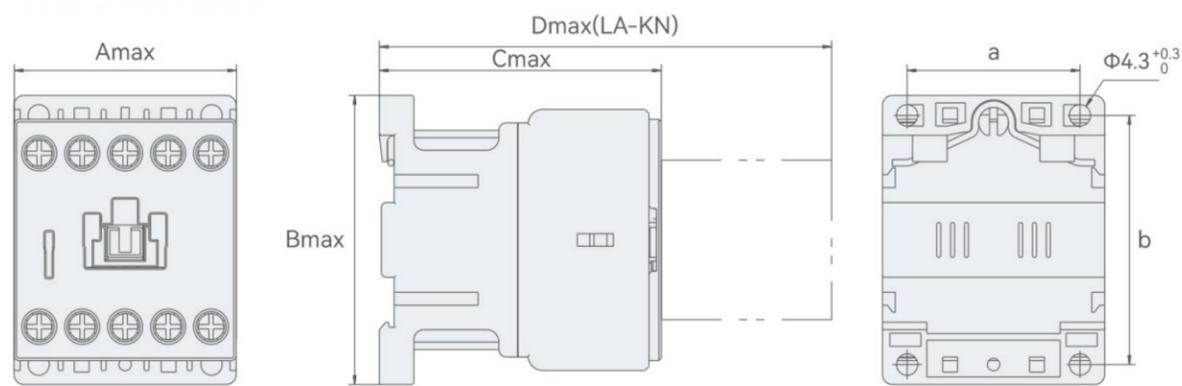
work environment

Rated insulation voltage (Ui)			690
Rated impulse withstand voltage (Uimp)			6
Pollution level			2
Compliant with standards			IEC 60947-1, 60947-4-1, GB14048.4, GB14048.1
Product certificate			CCC、CQC、CE、CB
Protection level			Ip20
Ambient temperature	Storage	°C	-50~+80
	Work	°C	-40~+70
	Allow to work under Us	°C	-40~+70
Vibration resistance	Contactor disconnected		8gn
	Contactor closed		10gn
Maximum working altitude	No capacity reduction	m	2000
Work location	No capacity reduction		Allow for a 22.5 ° angle with the normal vertical installation surface
Installation category is Class III			
Flame retardant performance	Complies with IEC60695-2-1 standard	°C	V0 rating for shell and base

▶ Characteristics of AC control circuit

Rated control circuit voltage (Us)	50Hz、50/60Hz	V	AC24V、AC36V、AC48V、AC110V、AC127V、AC220V、AC380V、AC400V、AC415
	DC	V	VDC12V、DC24V、DC36V、DC48V、DC110V、DC125V、DC220V、DC240V
Rated control limit	Suction	V	85%~110%Us
	release	V	AC 20%~70%Us;DC10%~70%Us
Average power consumption	start	VA	40
	release	VA	7
	Average power consumption	W	3~4
Heat loss		W	1.3
Action time	Close "C"	ms	5~15
	Open "O"	ms	10~20
Mechanical lifespan	10000 times		1200
Maximum operating frequency	Number of operations per hour (≤40°C)		3600

▶ Appearance and installation dimensions



GYC1M-16M外形及安装尺寸(mm)

Model specifications	Amax	Bmax	Cmax	Dmax	a	b
06M-16M	45.5	58.5	57.5	92	35	50
06MZ-16MZ	45.5	58.5	70	104	35	50