The product data referred to in the company shall be subject to material object. Subject to change without notice. The company has the final right to interpret.

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GEYA

ZHEJIANG GEYA ELECTRICAL CO.LTD.

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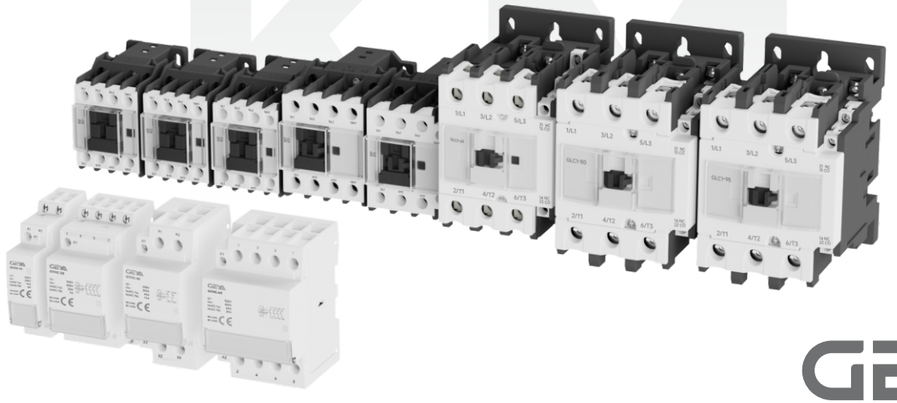
Contactor

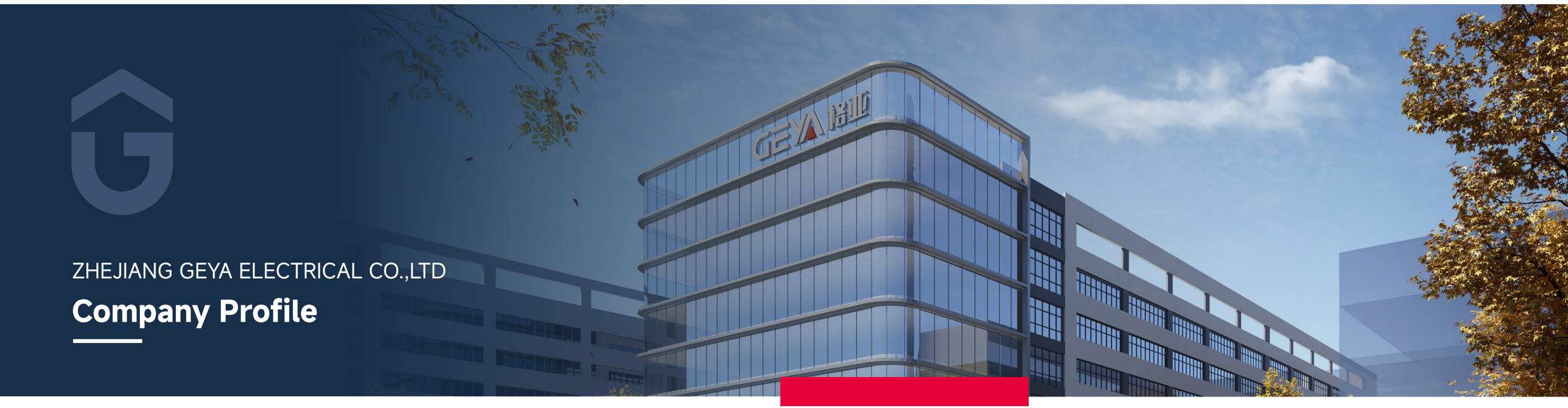
Product Selection Manual

KM



GEYA

ZHEJIANG GEYA ELECTRICAL CO.,LTD



ZHEJIANG GEYA ELECTRICAL CO.,LTD

Company Profile

Founded in **2007**

Geya Electrical Co. Ltd was located in Wenzhou, Zhejiang, China. Our company integrates R&D, production and sales, and committed to be the technology enterprise of low-voltage electrical equipment and automation control products.
After years of operating, our annual turnover has exceeded 100 million yuan. Geya's product series involve a variety of low-voltage electrical equipment and automation control products, including miniature circuit breaker (MCB), molded case circuit breaker (MCCB), residual circuit breaker (RCB), isolation switch, contactors, relays, timer, distribution box, etc. The product series are complete and the application fields are wide, which is widely recognized by domestic and foreign customers.

Our four major sales areas cover six continents, and Geya has been chosen and trusted by more than 40 foreign companies. We takes the development concept of "pursue nature of things, reach to the world", sticking to high standards and high quality.

We have obtained a number of national invention patents, and deployed our brand GEYA in most countries around the world. Global certifications include CCC, CE, SAA, SEMKO, TUV, CE and other EU authoritative certifications.

Our sales team gradually promote Geya brand to the global market, we sincerely welcome customers to achieve win-win and common development with Geya!

Characteristics

- GLC1 AC contactor: 9~95A, a total of 10 current specifications
- Certification :CCC, CE
- Conform to the standard IEC 60947-1, IEC60947-4-1, GB/T14048.1, GB/T14048.4

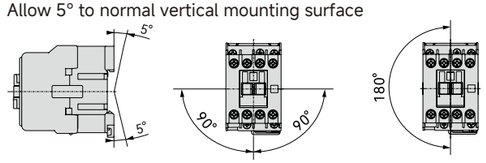
The reduction factor is used at high altitudes				
Altitude (m)	2000	3000	4000	
Rated operating voltage Ui	1.00	0.90	0.80	
Rated operating current Ie	1.00	0.92	0.90	
Temperature reduction coefficient of abnormal working environment				
Ambient temperature (°C)	40	50	60	70
Correction factor	1	0.875	0.75	0.625

Model and connotation

GL C 1 – 09 10 24V Z

- Dc operation
- Coil voltage: AC:24V/36V/110V/220V/380V; DC:24/110/220V
- Contact type: 10:1NO 003: Main contact 3NC(32A); 01:1NC 11:1NO1NC
- Rated current: 09A/12A/18A/25A/32A/40A/50A/65A/80A/95A
- Design sequence number
- Ac contactor
- Corporate code

Technical parameters

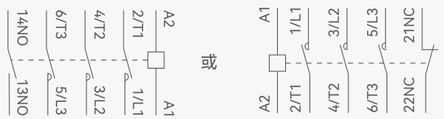
Contactor type number			GLC1 -09	GLC1 -12	GLC1 -18	GLC1 -25	GLC1 -32	GLC1 -40	GLC1 -50	GLC1 -65	GLC1 -80	GLC1 -95
Rated operating current (Ie)	AC-3	A	9	12	18	25	32	40	50	65	80	95
	AC-1	A	20	20	32	40	50	60	80	80	100	100
Rated operating voltage (Ue)			380V									
Number of poles			3	3	3	3	3	3	3	3	3	3
Rated working power (Pe) AC-3	220V	kW	2.2	3	4	5.5	7.5	11	15	18.5	22	25
	380V	kW	4	5.5	7.5	11	15	18.5	22	30	37	45
	660V	kW	5.5	7.5	10	15	18.5	30	33	37	45	45
Built-in auxiliary contact module			One normally open or normally closed contact is built into the contactor					The contactor has one normally open and normally closed contact				
Suitable for manual - overload relay		A	0.1-10	0.1-13	0.1-18	0.1-24	0.1-32	17-40	17-50	17-65	17-104	17-104
Working environment												
Rated insulation voltage (Ui)		V	690									
Rated impulse withstand voltage (Uimp)		KV	6									
Pollution level			3									
Meet the standard			IEC60947-1, 60947-4-1, GB/T 14048.1, GB/T 14048.4									
Product certificate			CCC, CE									
Class of protection			IP20									
Ambient temperature	Store	℃	-60~-80									
	work	℃	IP20									
	Allowed to work under Us	℃	-40~+60									
Maximum working altitude	No volume reduction	m	2000									
The working location installation category is Class III	No volume reduction		Allow 5° to normal vertical mounting surface 									
Flame retardant property	Meets GB/T5169.11 standard	℃	Housing V0 rating									

Main loop connection			GLC1 -09	GLC1 -12	GLC1 -18	GLC1 -25	GLC1 -32	GLC1 -40	GLC1 -50	GLC1 -65	GLC1 -80	GLC1 -95
Flexible wire	1 wire	mm^2	1…4	1…4	1…4	1.5…10	1.5…10	2.5…25	2.5…25	2.5…25	4…50	4…50
No terminal	2 wires	mm^2	1…4	1…4	1…4	1.5…6	1.5…6	2.5…16	2.5…16	2.5…16	4…25	4…25
Flexible wire	1 wire	mm^2	1…4	1…4	1…4	1…6	1…6	2.5…25	2.5…25	2.5…25	4…50	4…50
Tape terminal	2 wires	mm^2	1…2.5	1…2.5	1…2.5	1…4	1…4	2.5…10	2.5…10	2.5…10	4…16	4…16
Hard line	1 wire	mm^2	1…4	1…4	1…4	1.5…6	1.5…6	2.5…25	2.5…25	2.5…25	4…50	4…50
No terminal	2 wires	mm^2	1…4	1…4	1…4	1.5…6	1.5…6	2.5…16	2.5…16	2.5…16	4…25	4…25
tool	Phillips screwdriver		PH2	PH2	PH2	PH2	PH2	-	-	-	-	-
	Flat-head screwdriver		∅6	∅6	∅6	∅6	∅6	∅8	∅8	∅8	∅8	∅8
Tightening torque		N.m	1.2	1.2	1.2	1.7	1.7	5	5	5	9	9
Control circuit connection												
The flexible cable has no terminal	1 wire	mm^2	1…4	1…4	1…4	1…2.5	1…4	1…4	1…4	1…4	1…4	1…4
	2 wires	mm^2	1…4	1…4	1…4	1…2.5	1…4	1…4	1…4	1…4	1…4	1…4
Flexible cable with terminal	1 wire	mm^2	1…4	1…4	1…4	1…2.5	1…4	1…2.5	1…2.5	1…2.5	1…2.5	1…2.5
	2 wires	mm^2	1…2.5	1…25	1…2.5	1…2.5	1…2.5	1…2.5	1…2.5	1…2.5	1…2.5	1…2.5
The hard cable has no terminal	1 wire	mm^2	1…4	1…4	1…4	1…2.5	1…4	1…4	1…4	1…4	1…4	1…4
	2 wires	mm^2	1…4	1…4	1…4	1…2.5	1…4	1…4	1…4	1…4	1…4	1…4
tool	Phillips screwdriver		PH2	PH2	PH2	Ph2	PH2	PH2	PH2	PH2	PH2	PH2
	Flat-head screwdriver		∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6
Tightening torque		N.m	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Main contact characteristics												
Rated operating current (Ie)	AC-3	A	9	12	18	25	32	40	50	65	80	95
	AC-1	A	20	20	32	40	50	60	80	80	100	100
Rated operating voltage (Ue)		V	380									
Frequency range	Working current	Hz	50	50	50	50	50	50	50	50	50	50
Conventional heating current (Ith)	θ≤40°C	A	20	20	32	40	50	60	80	80	100	100
Rated switching capacity (380V)	Comply with IEC60947 Gb14048 standard		10xIe(AC-3 use category); 12xIe(AC-4 usage category)									
Rated breaking capacity (380V)	Comply with IEC60947 Gb14048 standard		8xIe(AC-3 usage category); 10xIe(AC-4 usage category)									
Short-time withstand current	10s	A	105	105	144	200	260	320	400	520	640	800
Protected by a fuse	No thermal overload relay fuse gG	Type 1 A	20	20	25	32	63	80	100	160	200	200
		Type 2 A	10	10	20	25	63	80	100	125	160	160
Electrical life (380V)	AC-3	Ten thousand times	110	110	110	110	90	90	90	90	65	65
	AC-4	Ten thousand times	5	5	5	4	3	3	2.5	2.5	2	1.5
Ac control circuit characteristics												
Rated control circuit voltage (Us)	50Hz	V	24、36、110、220、380									
	DC	V	24、110、220									
Rated control limit	actuation	V	85%~110%Us									
	Release	V	AC 20%~70%Us;DC 10%~70%Us									
Average power consumption	50Hz starting Cos∅=0.75	VA	50~70			80~110		160~220			160~220	
	50Hz holding Cos∅=0.3	VA	6~8.9			9~12		20~35				
Heat loss	50Hz	W	3~4	3~4	3~4	3~4	3~4	6~10	6~10	6~10	6~10	6~10
Action time	Close "C"	ms	12~25					20~26				
	Open "O"	ms	5~20					6~15				
Mechanical life	Ten thousand times		1200	1200	1200	1000	1000	900	900	900	650	650
Maximum operating frequency	Number of operations per hour (≤40℃)		3600									
The contactor comes with auxiliary contact features												
Contact specification			1 normally open or 1 normally closed					1 normally open and 1 normally closed				
Rated operating current (Ie)	AC-15/DC-13	A	AC:0.95/DC:0.15									
Rated operating voltage	AC-15/DC-13	V	AC: 380V/DC: 220									
Conventional heating current (Ith)		A	10									
Rated insulation voltage (Ui)		V	690									
Rated impulse withstand voltage (Uimp)		kV	6									
Short circuit protection		A	10									
Rated switching capacity		A	AC: 140,DC: 220									
Insulation resistance		MΩ	> 10									

GLC1 Series Ac contactor

Wiring Diagram

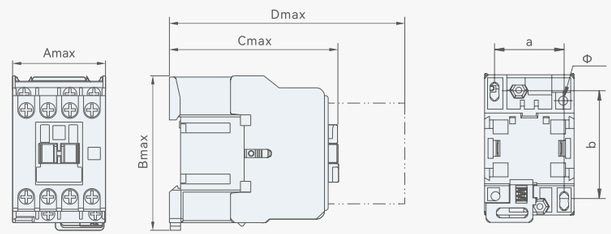
GLC1-09~32（Z）



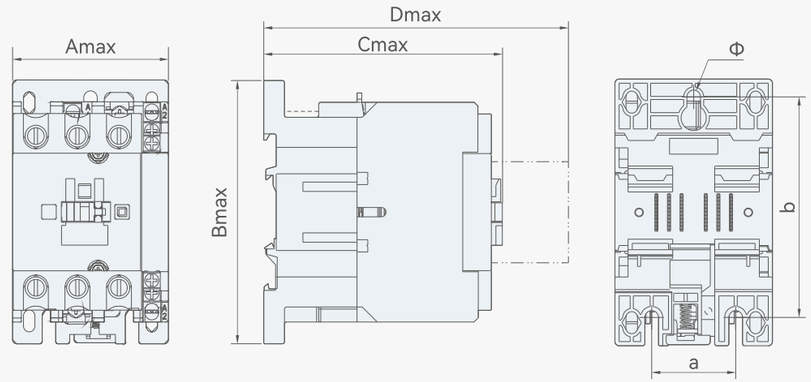
GLC1-40~95(Z)

Dimensions(mm)

GLC1-09~32



GLC1-40~95



Product model specification	Amax	Bmax	Cmax	Dmax	a	b	ϕ
GLC1-09、12	47	76	82	120.5	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	87	125.5	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	96	134.5	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	101	139.5	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	116	154.5	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	$6.5^{+0.58}_{0}$
GLC1-80、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	$6.5^{+0.58}_{0}$

Quadrupole contactor **GLC4 Series**

Characteristics

- GLC4 AC contactor :09~95A, a total of 9 current specifications accessories: F1 top auxiliary contact, FC1 side auxiliary contact, FJ1 mechanical interlock, FY1 air delay head, FR1 surge suppressors
- Certification :CCC, CEConform to the standard IEC 60947-1, IEC 60947-4-1,
- GB/T14048.1, GB/T14048.4

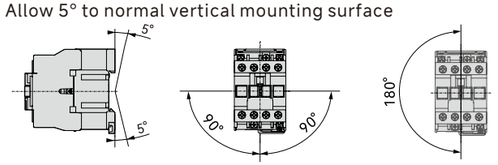
The reduction factor is used at high altitudes				
Altitude (m)	2000	3000	4000	
Rated operating voltage Ui	1.00	0.90	0.80	
Rated operating current Ie	1.00	0.92	0.90	
Temperature reduction coefficient of abnormal working environment				
Ambient temperature (° C)	40	50	60	70
Correction factor	1	0.875	0.75	0.625

Model and connotation

GL C 4 – 09 004 24V Z

- Z — Dc operation
- 24V — Coil voltage: AC:24V/36V/110V/220V/380V; DC:24/110/220V
- 004 — Contact type: 004: Main contact 4NO(except 18A); 008: Main contact 2NO+2NC(except 18A)
- 09 — Rated current: 09A/12A/25A/32A/40A/50A/65A/80A/95A
- 4 — Design sequence number
- C — Ac contactor
- GL — Corporate code

Technical parameters

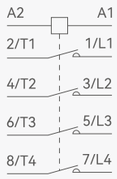
Contactor type number			GLC4 -09	GLC4 -12	GLC4 -25	GLC4 -32	GLC4 -40	GLC4 -50	GLC4 -65	GLC4 -80	GLC4 -95
Rated operating current (Ie)	AC-3	A	9	12	25	32	40	50	65	80	95
	AC-1	A	20	20	40	50	60	80	80	100	100
Rated operating voltage (Ue)			380V								
Number of poles			4	4	4	4	4	4	4	4	4
Rated working power (Pe) AC-3	220V	kW	2.2	3	5.5	7.5	11	15	18.5	22	25
	380V	kW	4	5.5	11	15	18.5	22	30	37	45
	660V	kW	5.5	7.5	15	18.5	30	33	37	45	45
Working environment											
Rated insulation voltage (Ui)		V	690								
Rated impulse withstand voltage (Uimp)		kV	6								
Pollution level			3								
Meet the standard			IEC 60947-1, IEC 60947-4-1, GB/T 14048.1, GB/T 14048.4								
Product certificate			CCC,CE								
Class of protection			IP20								
Ambient temperature	store	℃	-60~-80								
	professional	℃	IP20								
	Allowed to work under Us	℃	-40~+60								
Maximum working altitude	No volume reduction	m	2000								
The working location installation category is Class III	No volume reduction		Allow 5° to normal vertical mounting surface 								
Flame retardant property	Comply with IEC60695-2-1 standard	℃	Housing V0 rating								

GLC4 Series Quadrupole contactor

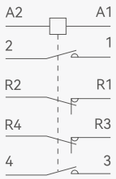
Contactor type number			GLC4 -09	GLC4 -12	GLC4 -25	GLC4 -32	GLC4 -40	GLC4 -50	GLC4 -65	GLC4 -80	GLC4 -95
Flexible wire	1 wire	mm^2	1…4	1…4	1.5…10	1.5…10	2.5…25	2.5…25	2.5…25	4…50	4…50
No terminal	2 wires	mm^2	1…4	1…4	1.5…6	1.5…6	2.5…16	2.5…16	2.5…16	4…25	4…25
Flexible wire	1 wire	mm^2	1…4	1…4	1…6	1…6	2.5…25	2.5…25	2.5…25	4…50	4…50
Tape terminal	2 wires	mm^2	1…2.5	1…2.5	1…4	1…4	2.5…10	2.5…10	2.5…10	4…16	4…16
Hard line	1 wire	mm^2	1…4	1…4	1.5…6	1.5…6	2.5…25	2.5…25	2.5…25	4…50	4…50
No terminal	2 wires	mm^2	1…4	1…4	1.5…6	1.5…6	2.5…16	2.5…16	2.5…16	4…25	4…25
tool	Phillips screwdriver		PH2	PH2	PH2	PH2	-	-	-	-	-
	Flat-head screwdriver		∅6	∅6	∅6	∅6	∅8	∅8	∅8	∅8	∅8
Tightening torque		N.m	1.2	1.2	1.7	1.7	5	5	5	9	9
Rated switching capacity (380V)	Comply with IEC60947 Gb14048 standard		10xIe(AC-3 usage category); 12xIe(AC-4 usage category)								
Rated breaking capacity (380V)	Comply with IEC60947 Gb14048 standard		8xIe(AC-3 usage category); 10xIe(AC-4 usage category)								
Short-time withstand current	10s	A	105	105	200	260	320	400	520	640	800
Protected by a fuse	No thermal overload	Type 1 A	0	20	32	63	80	100	160	200	200
	relay fuse gG	Type 2 A	10	10	25	63	80	100	125	160	160
Electrical life (380V)		Ten thousand times	110	110	110	90	90	90	90	65	65
		Ten thousand times	5	5	4	3	3	2.5	2.5	2	1.5
Ac control circuit characteristics											
Rated control circuit voltage (Us)	50Hz	V	24、36、110、220、380								
	DC	V	24、110、220								
Rated control limit	actuation	V	85%~110%Us								
	Release	V	AC 20%~70%Us;DC 10%~70%Us								
Average power consumption	50Hz starting Cos∅=0.75	VA	70		110		220			220	
	50Hz holding Cos∅=0.3	VA	< 9		< 14		< 36.6				
	Average power consumption		1.8~2.7				6~10			6~10	
Heat loss	50Hz	W	3~4	3~4	3~4	3~4	6~10	6~10	6~10	6~10	6~10
Action time	Close "C"	W	12~25				20~26				
	Open "O"	ms	5~20				6~15				
Mechanical life	Ten thousand times	ms	1200	1200	1000	1000	900	900	900	650	650
Maximum operating frequency	Number of operations per hour (≤40℃)		3600								

Wiring Diagram

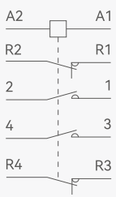
GLC4-09004~95004(Z)



GLC4-09008~32008(Z)

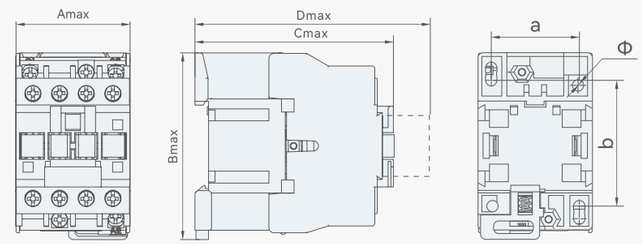


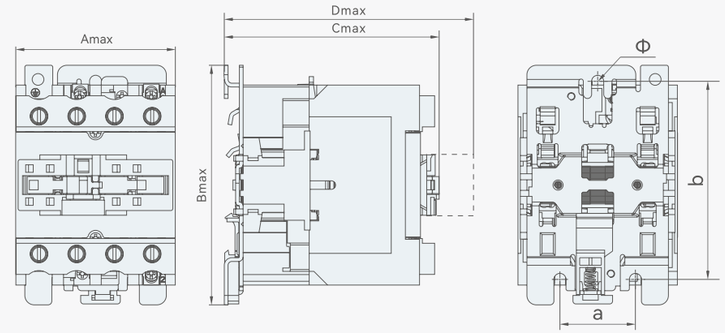
GLC4-40008~95008(Z)



Dimensions(mm)

GLC4-09~32





Product model specification	Amax	Bmax	Cmax	Dmax	a	b	ϕ
GLC4-09004、09008、12004、12008	47	76	82	120.5	35±0.5	50±0.5/60±0.6	$4.5^{+0.48}_{0}$
GLC4-09004Z、09008Z、12004Z、12008Z	47	76	116	154.5	35±0.5	50±0.5/60±0.6	$4.5^{+0.48}_{0}$
GLC4-25004、25008	58	86	96	134.5	40±0.5	50±0.5/60±0.6	$4.5^{+0.48}_{0}$
GLC4-25004Z、25008Z	58	86	131	169.5	40±0.5	50±0.5/60±0.6	$4.5^{+0.48}_{0}$
GLC4-40004、50004、65004	86	128	116	154.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-40004Z、50004Z、65004Z	86	128	172	210.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-40008、50008、65008	86	128	127	154.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-40008Z、50008Z、65008Z	86	128	183	210.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-80004、95004	98	128	124	162.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-80004Z、95004Z	98	128	180	218.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-80008、95008	98	128	136	162.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$
GLC4-80008Z、95008Z	98	128	192	218.5	40±0.5	100±0.7/110±0.7	$6.5^{+0.58}_{0}$

GLC3 Series Ac contactor

Characteristics

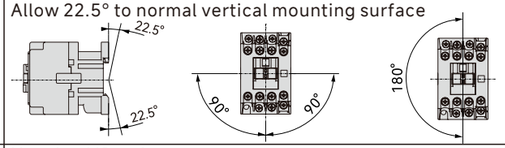
- GLC3 AC contactor :06~95A, a total of 12 current specifications
- Accessories: F1 top auxiliary contact, FC1 side auxiliary contact, Moon 1 mechanical interlock, FY1 air delay head, FR1 surge suppressor
- Certification :CCC, CE, CB
- Standard: IEC60947-1. IEC60947-4-1 GB/T14048.1 GB/T14048.4

Model and connotation

GL C 3 — 06 11 24V 50HZ

- 50HZ — 50Hz 50/60Hz
- 24V — Coil voltage: AC:24V/36V/48V/110V/220V/380V/400V/415V
- 11 — Contact type: 11:1NO+1NC
- 06 — Rated current: 06A/09A/12A/18A/25A/32A/38A40A/50A/65A/80A/95A/
- 3 — Design sequence number
- C — Ac contactor
- GL — Corporate code

Technical parameters

Contactor type number			GLC3 -06	GLC3 -09	GLC3 -12	GLC3 -18	GLC3 -25	GLC3 -32	GLC3 -38	GLC3 -40	GLC3 -50	GLC3 -65	GLC3 -80	GLC3 -95
Rated operating current (Ie) AC-3	380/400V	A	6	9	12	18	25	32	38	40	50	65	80	95
	660/690V	A	3.8	6.6	8.9	12	18	22	22	34	39	42	49	49
Rated operating current (Ie) AC-4	380/400V	A	2.6	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
	660/690V	A	1	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3
Rated operating voltage (Ue)	V		220V/230V、380V/400V、660V/690V											
Number of poles			3	3	3	3	3	3	3	3	3	3	3	3
Rated working power (Pe) AC-3	380/400V	kW	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
	660/690V	kW	4	4	5.5	7.5	11	15	15	30	33	37	45	45
Rated working power (Pe) AC-4	380/400V	kW	1.1	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22
	660/690V	kW	0.75	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5
Built-in auxiliary contact module			The contactor has one normally open and normally closed contact											
Suitable for manual - overload relay		A	0.1-10	0.1-10	0.1-13	0.1-18	0.1-24	0.1-32	0.1-32	0.1-40	0.1-50	0.1-65	01-104	01-104
Working environment														
Rated insulation voltage (Ui)		V	690											
Rated impulse withstand voltage (Uimp)		kV	6											
Pollution level			3											
Meet the standard			IEC											
Product certificate			CCC、CE、CB											
Class of protection			IP20											
Ambient temperature	store	℃	-60~-80											
	professional	℃	-5~+40											
	Allowed to work under Us	℃	-40~+60											
Maximum working altitude	No volume reduction	m	2000											
Working position The installation category is Class III	No volume reduction		Allow 22.5° to normal vertical mounting surface 											
Flame retardant property	Comply with IEC60695-2-1 standard		Housing V0 rating											

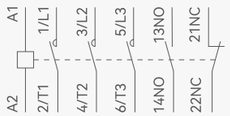
Main loop connection			GLC3 -06	GLC3 -09	GLC3 -12	GLC3 -18	GLC3 -25	GLC3 -32	GLC3 -38	GLC3 -40	GLC3 -50	GLC3 -65	GLC3 -80	GLC3 -95
Flexible wire No terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	15..10	15..10	15..10	25..25	25..25	25..25	4...50	4...50
	2 wires	mm^2	1..4	1..4	1..4	1..4	15..6	15..6	15..6	25..16	25..16	25..16	4...25	4...25
Flexible wire Tape terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	1..6	1..6	1..6	25..25	25..25	25..25	4...50	4...50
	2 wires	mm^2	1..25	1..25	1..25	1..25	1..4	1..4	1..4	25..10	25..10	25..10	4...16	4...16
Hard line No terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	15..6	15..6	15..6	25..25	25..25	25..25	4...50	4...50
	2 wires	mm^2	1..4	1..4	1..4	1..4	15..6	15..6	15..6	25..16	25..16	25..16	4...25	4...25
tool	Phillips screwdriver		PH2	PH2	PH2	PH2	PH2	PH2	PH2	-	-	-	-	-
	Flat-head screwdriver		∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅8	∅8	∅8	∅8	∅8
Tightening torque		N.m	1.2	1.2	1.2	1.2	1.7	1.7	1.7	5	5	5	9	9
Control circuit connection														
The flexible cable has no terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4
	2 wires	mm^2	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4
Flexible cable with terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4
	2 wires	mm^2	1..25	1..25	1..25	1..25	1..25	1..25	1..25	1..25	1..25	1..25	1..25	1..25
The hard cable has no terminal	1 wire	mm^2	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4
	2 wires	mm^2	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4	1..4
tool	Phillips screwdriver		PH2	PH2	PH2	PH2	PH2	PH2	PH2	PH2	PH2	PH2	PH2	PH2
	Flat-head screwdriver		∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6
Tightening torque		N.m	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Main contact characteristics														
Rated operating current (Ie) AC-3	380/400V	A	6	9	12	18	25	32	38	40	50	65	80	95
	660/690V	A	3.8	6.6	8.9	12	18	22	22	34	39	42	49	49
Rated operating current (Ie) AC-4	380/400V	A	2.6	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
	660/690V	A	1	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3
Rated operating voltage (Ue)		V	220V/230V、380V/400V、660V/690V											
Frequency range	Working current	Hz	50、50/60Hz											
Conventional heating current (Ith)	θ≤40℃	A	16	20	20	25	32	40	50	60	80	80	100	100
Rated switching capacity (380V)	Comply with IEC60947 Gb14048 standard		10xIe(AC-3 usage category); 12xIe(AC-4 usage category)											
Rated breaking capacity (380V)	Comply with IEC60947 Gb14048 standard		8xIe(AC-3 usage category); 10xIe(AC-4 usage category)											
Short-time withstand current	10s	A	48	72	96	144	200	256	310	320	400	520	640	800
Protected by a fuse	Comply with IEC60947	Type 1 A	20	20	20	25	40	50	63	80	100	160	200	200
	Gb14048 standard	Type 2 A	10	10	10	20	25	50	63	80	100	125	160	160
Electrical life (380V)	AC-3	Ten thousand times	110	100	100	100	90	90	80	90	90	90	65	65
	AC-4	Ten thousand times	5	4	4	4	3	2.5	2.5	3	2.5	2.5	2	1.5
Ac control circuit characteristics														
Rated control circuit voltage (Us)	50Hz 50/60Hz	V	24V、36V、48V、110V、220V、380V、400V、415V											
Rated control limit	actuation	V	85%~110%Us											
	Release	V	AC 20%~70%Us											
Average power consumption	50Hz starting Cos∅=0.75	VA	70			110			220			220		
	50Hz hold Cos∅=0.3	VA	< 9			< 9.5			< 36.6					
	Average power consumption	W	1.8~2.7			3~4			6~10			6~10		
Heat loss	50Hz	W	3~4	3~4	6~10	6~10	6~10	6~10	6~10					
Action time	Close "C"	ms	12~25						20~26					
	Open "O"	ms	5~20						6~15					
Mechanical life	Ten thousand times		1200	1200	1200	1200	1000	1000	1000	900	900	900	650	650
Maximum operating frequency	Hourly operation (≤40℃)		3600											
The contactor comes with auxiliary contact features														
Contact specification			One normally open and one normally closed											
Rated operating current (Ie)	AC-15/DC-13	A	AC:0.95*DC:0.15											
Rated operating voltage	AC-15/DC-13	V	AC:380V/DC:220											
Conventional heating current (Ith)		A	10											
Rated insulation voltage (Ui)	Comply with IEC60947 GB14048 standard	V	690											

GLC3 Series Ac contactor

Contactor type number			GLC3 -06	GLC3 -09	GLC3 -12	GLC3 -18	GLC3 -25	GLC3 -32	GLC3 -38	GLC3 -40	GLC3 -50	GLC3 -65	GLC3 -80	GLC3 -95
Rated impulse withstand voltage (Uimp)	Comply with IEC60947 GB14048 standard	kV	6											
Short circuit protection	gG fuse	A	10											
Rated switching capacity	Comply with IEC60947 GB14048 standard	A	AC:140,DC:220											
Insulation resistance		MΩ	> 10											

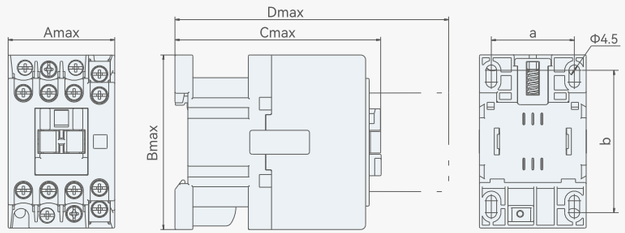
Wiring Diagram

GLC3-06~95

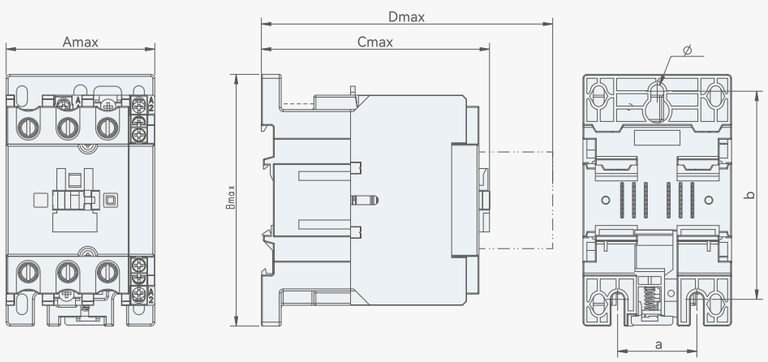


Dimensions(mm)

GLC3-06-38 Dimensions and mounting dimensions (mm)



GLC3-40-95 Dimensions and mounting dimensions (mm)



Type specification	Amax	Bmax	Cmax	Dmax	a	b
GLC3-06~18	45.5	73.5	87	125.5	35	60
GLC3-25~38	56.5	82.5	98	136.5	40	73.5
GLC3-40~65	79	128	116	154	40	100/110
GLC3-80~95	87	128	127	165	40	100/110

Micro contactor GLC1M Series

Characteristics

- GLC1M AC contactor :6~16A, a total of 4 current specifications
- Accessories :LA-KN top auxiliary contact
- Certification :CCC, CE, CB
- Standards :IEC60947-1,IEC 60947-4-1,GB/T14048.1,GB/T 14048.4

The reduction factor is used at high altitudes				
Altitude (m)	2000	3000	4000	
Rated operating voltage Ui	1.00	0.90	0.80	
Rated operating current Ie	1.00	0.92	0.90	
Temperature reduction coefficient of abnormal working environment				
Ambient temperature (° C)	40	50	60	70
Correction factor	1	0.875	0.75	0.625

Model and connotation

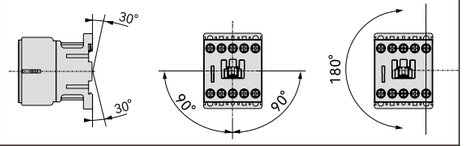
GL C 1 - 06 M T 10 Z N 24V 50

- Frequency — 50Hz, 50/60Hz
- Coil voltage — AC:24V/36V/48V/110V/125V/220V/380V/400V/415V; DC:12V/24V/36V/48V/110V/127V/220V/240
- Interlocking reversible products; Omit not to write, single product omit: communication
- Z: DC
- Contact type — 10:1NO 01: 1NC 03: Main contact 3NC 04: Main contact 4NO 08: Main contact 2NO+2NC
- Wiring mode omitted — Screw clamping wiring mode; T: spring terminal wiring mode (DC control only); Y: Solder pins for printed circuit boards (DC control only)
- Mini/miniature
- Rated current — 06A/09A/12A/16A
- Design sequence number
- Ac contactor
- Corporate code

Technical parameters

Contactor type number			GLC1-06M	GLC1-09M	GLC1-12M	GLC1-16M
Rated operating 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 operating current (Ie) AC-4	220/230V	A	2.6	3.5	5	5
	380/400V	A	2.6	35	5	5
	660/690V	A	1	1.5	2	2
Rated operating voltage (Ue)		V	220V/230V、380V/400V、660V/690V			
Number of poles			3P/4P	3P/4P	3P/4P	3P/4P
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
Built-in auxiliary contact module			One normally open or normally closed contact is built into the contactor			
Flow suppressor module			Built-in resistance-capacitance circuit			
Suitable for manual - overload relay		A	0.11-16			
Working environment						
Rated insulation voltage (Ui)			690			
Rated impulse withstand voltage (Uimp)			6			
Pollution level			2			
Meet the standard			IEC 60947-1, IEC 60947-4-1, GB/T 14048.1, GB/T 14048.4			

GLC1M Series Micro contactor

Contactor type number			GLC1-06M	GLC1-09M	GLC1-12M	GLC1-16M
Product certificate			CCC、CE、CB			
Class of protection			IP20			
Ambient temperature	store	℃	-50~+80			
	professional	℃	-40~+70			
	Allowed to work under Us	℃	-40~+70			
Vibration resistance	Contactor break		6gn			
	Contactor closing		10gn			
Maximum working altitude	No volume reduction	m	2000			
Working position The installation category is Class III	No volume reduction		Allow 30° to normal vertical mounting surface 			
Flame retardant property	Comply with IEC60695-2-1 standard	℃	Housing V0 rating			
Main circuit and control circuit wiring (screw clamp terminals)						
The flexible cable has no terminal		mm^2	1×0.75-2×4			
Flexible cable with terminal		mm^2	1×0.34-1×1.5+1×2.5			
The hard cable has no terminal		mm^2	1×1.5-2×4			
tool	Phillips screwdriver		Ph2			
	Flat-head screwdriver		∅6			
Tightening torque		N.m	1.2			
Main loop and control circuit connection (spring terminal)						
The flexible cable has no terminal		mm^2	1×0.75-1×2.5			
Flexible cable with terminal		mm^2	1×0.75-1×2.5			
The hard cable has no terminal		mm^2	1×0.75-1×2.5			
tool			∅3			
Main circuit and control circuit connection (solder pin of printed circuit board)						
Positioning device with power supply and control circuit			4mm×35μm			
Tightening torque		N.m	1.2			
Rated operating 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 operating current (Ie) AC-4	220/230V	A	2.6	3.5	5	5
	380/400V	A	2.6	35	5	5
	660/690V	A	1	1.5	2	2
Rated operating voltage (Ue)		V	220V/230V、 380V/400V、660V/690V			
Frequency range	Working current	Hz	50、50/60			
Conventional heating current (Ith)	θ≤40℃	A	20			
Rated switching capacity (380V)	Comply with IEC60947 GB/T14048 standard		10xIe(AC-3 usage category); 12xIe(AC-4 usage category)			
Rated breaking capacity (380V)	Comply with IEC60947 GB/T14048 standard		8xIe(AC-3 use category):10xIe(AC-4 use category)			
Short-time withstand current	10s	A	80	80	100	100
Short circuit protection	No thermal overload relay fuse gG		25			
Electrical life (380V)	AC-3		120			
	AC-4		2			
Ac control circuit characteristics						
Rated control circuit voltage (Us)	Hold at 50Hz and 50/60Hz		AC24V、AC36V、 AC48V、AC110V、AC127V、AC220V、			
			AC380V、AC400V、AC415V			
	DC	V	DC12V、DC24V、DC36V、DC48V、DC110V、DC125V、DC220V、DC240V			
Rated control limit	actuation	V	85%~110%Us			
	Release	V	AC 20%~70%Us;DC 10%~70%Us			
Average power consumption	Ac controlled starting	VA	40			
	Ac control hold	VA	7			
	Dc controlled starting	W	3-4			
	Dc control hold	W	3-4			

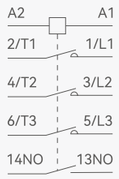
Micro contactor GLC1M Series

Contactor type number			GLC1-06M	GLC1-09M	GLC1-12M	GLC1-16M
Heat loss		W	1.3			
Action time	Close "C"	ms	10~20			
	Open "O"	ms	5~15			
Mechanical life	Ten thousand times		900			
Maximum operating frequency	Number of operations per hour (≤40℃)		3600			
The contactor comes with auxiliary contact features						
Contact specification			1 normally open or 1 normally closed			
Rated operating current (Ie)	AC-15/DC-13	A	AC0.95/DC0.15			
Rated operating voltage	AC-15/DC-13	V	AC:380V/DC:220			
Conventional heating current (Ith)		A	10			
Rated insulation voltage (Ui)	Comply with IEC60947 GB/T14048 standard	V	690			
Contact module type			LA-KN Top mount auxiliary contact			
Working environment						
Rated insulation voltage (Ui)		V	690			
Rated impulse withstand voltage (Uimp)		kv	6			
Meet the standard			IEC 60947-5-1, GB/T 14048.5,			
Product certificate			CCC			
Class of protection			IP20			
Ambient temperature	store	℃	-60~-80			
	professional	℃	-5~+40			
	Allowed to work under Us	℃	-40~+60			
Maximum working altitude	No volume reduction	m	2000			
wiring	Phillips screwdriver Ph2	mm^2	minimum :1x1			
			minimum :2x2.5			
	Ø6 Soft or hard cable With or without terminals	mm^2	minimum :1x1			
			minimum :2x2.5			
Contact specification						
Rated operating current (Ie)	AC-15/DC-13	A	AC:0.95*DC:0.15			
Rated operating voltage	AC-15/DC-13	V	AC:380V/DC:220			
Conventional heating current (Ith)		A	10			
Rated insulation voltage (Ui)	Comply with IEC60947 GB/T14048 standard	V	690			
Rated impulse withstand voltage (Uimp)	Comply with IEC60947 GB/T14048 standard	kV	6			
Short circuit protection	gG fuse	A	10			
Rated switching capacity	Comply with IEC60947 GB/T14048 standard	A	AC:140,DC:220			
Insulation resistance		MΩ	> 10			

Wiring Diagram

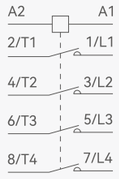
Mount on 35mm guide rail or secure with Ø4 screws. Screw out of position to tighten

GLC1-06M~16M(Z)

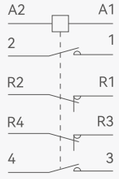


or

GLC1-06M04~16M04(Z)

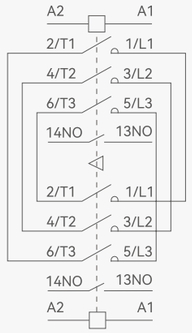


GLC1-06M08~16M08(Z)

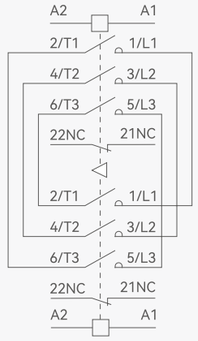


GLC1-06M-16M(Z) 3 pole reversible contactor

3P+NO

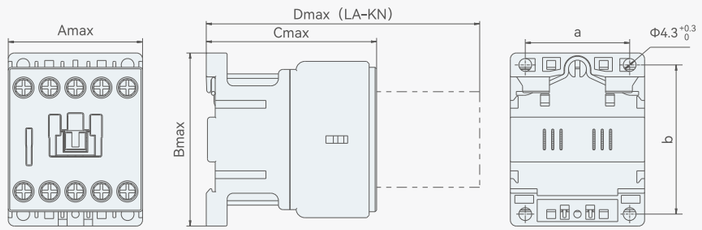


3P+NC



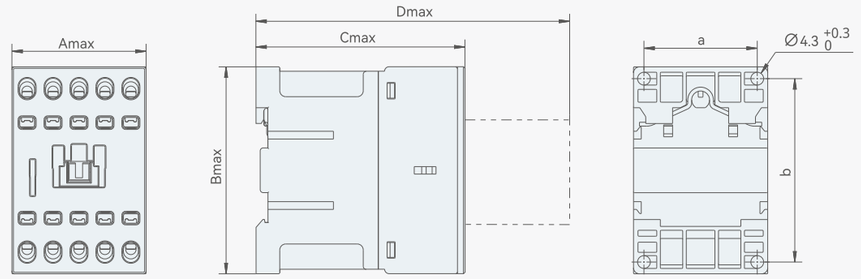
Dimensions(mm)

GLC1-06M~16M



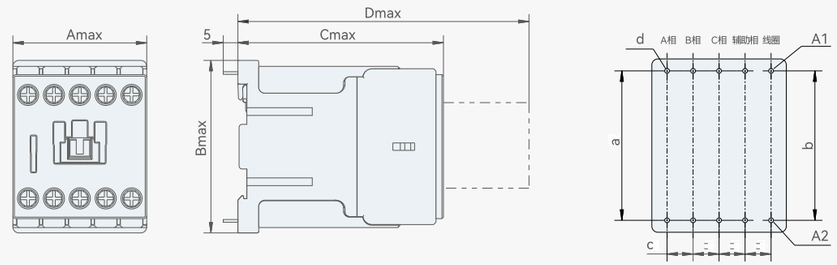
Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLC1-06M~16M	45.5	58.5	57.5	92	35	50
GLC1-06MZ~16MZ	45.5	58.5	70	104	35	50

GLC1-06MTZ~16MTZ



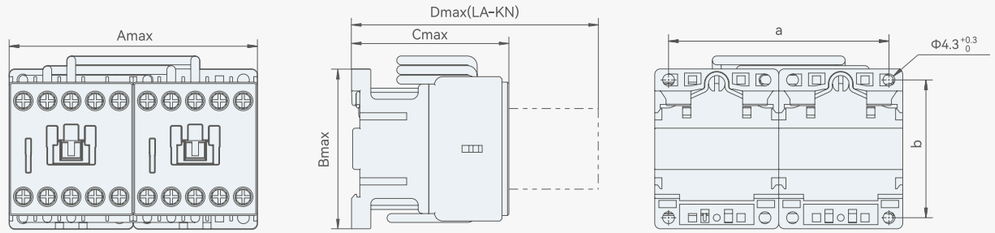
Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLC1-06MTZ~16MTZ	45.5	69.5	70	104	38	61.5

GLC1-06MYZ~16MYZ



Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b	c	d
GLC1-06MTZ~16MTZ	45.5	58.5	70	104	50	50	8.7	1.6

GLC1-06M/N~16M/N

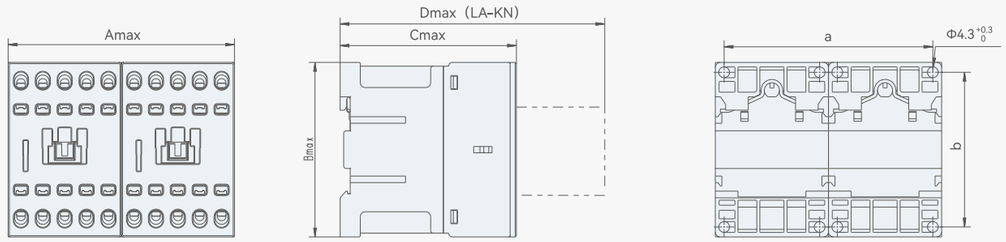


Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLC1-06M/N~16M/N	91	58.5	57.5	92	80.5	50
GLC1-06MZ/N~16MZ/N	91	58.5	70	104	80.5	50

GLC1M Series Micro contactor

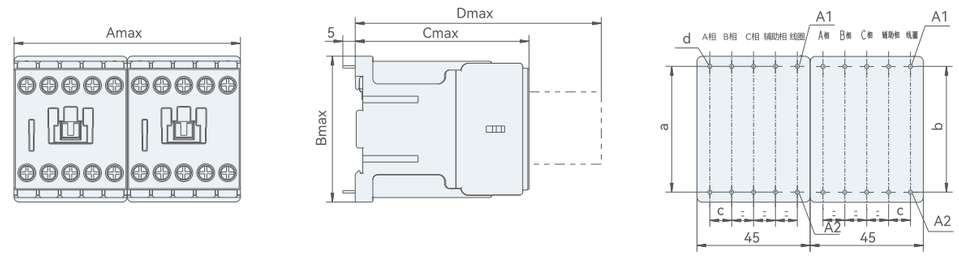
Dimensions(mm)

GLC1-06MTZ/N~16MTZ/N



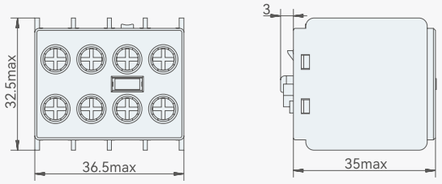
Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLC1-06MTZ/N~16MTZ/N	91	69.5	70	104	83	61.5

GLC1-06MYZ/N~16MYZ/N



Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b	c	d
GLC1-06MYZ/N~16MYZ/N	91	58.5	70	104	50	50	8.7	1.6

GLC1M contactor and top mount installation diagram



Contactor type relay GLJ1 Series

Characteristics

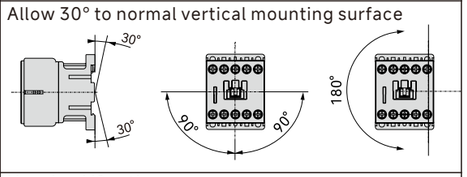
- High reliability, suitable for high impact vibration environment
- Multiple contact types
- Certification :CCC
- Standards :IEC60947-1,IEC60947-5-1,GB/T14048.1,GB/T 14048.5

Model and connotation

GL J 1 - 2 2 24V

- 24V — Coil voltage: AC:24V/36V/48V/110V/220V/380V/400V/415V; DC:24V/48V/110V/220V
- 2 — Contact type: 0: None 1: 1NO 2:2NO 3: 3NO4:4NO
- 2 — Contact type: 0: None 1: 1NO 2:2NO 3: 3NO4:4NO
- 1 — Design sequence number
- J — Ac contactor
- GL — Corporate code

Technical parameters

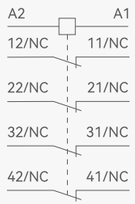
Contactor type number		GLJ1
Working environment		
Rated insulation voltage (Ui)	V	690
Rated impulse withstand voltage (Uimp)	kV	6
Pollution level		2
Meet the standard		IEC 60947-1, IEC 60947-5-1 ,GB/T 14048.1 ,GB/T 14048.5
Product certificate		CCC
Class of protection		IP20
Ambient temperature	store ℃	-50~+80
	professional ℃	-40~+70
	Allowed to work under Us ℃	-40~+70
Vibration resistance	Contactor break	8gn
	Contactor closing	10gn
Maximum working altitude	No volume reduction m	2000
Working position The installation category is Class III	No volume reduction	Allow 30° to normal vertical mounting surface 
Flame retardant property	℃	Housing V0 rating
Wiring capability (screw clamping terminals)		
The flexible cable has no terminal	mm^2	1×0.75-2×4
Flexible cable with terminal	mm^2	1×0.34-1×1.5+1×2.5
The hard cable has no terminal	mm^2	1×1.5-2×4
tool	Phillips screwdriver	Ph2
	Flat-head screwdriver	∅6
Tightening torque	N.m	1.2
Main circuit and control circuit wiring (spring terminal)		
The flexible cable has no terminal	mm^2	1×0.75-2×4
Flexible cable with terminal	mm^2	1×0.34-1×1.5+1×2.5
The hard cable has no terminal	mm^2	1×1.5-2×4
tool	Flat-head screwdriver	∅3
Main circuit and control circuit wiring (solder pins for printed circuit board)		
Positioning device with power supply and control circuit		4mm×35μm

GLJ1 Series Contactor type relay

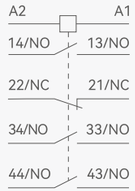
Contactor type number			GLJ1
Contact characteristic			
Rated operating voltage (Ue)		V	690
Frequency range	Working currentg	Hz	50、50/60
Conventional heating current (Ith)	θ≤40℃	A	10
Minimum switching capacity	Umin	V	17
	Imin	A	5
Overload current	1s	A	80
Short circuit protection	G fuse	A	10
Rated switching capacity	Complies with IEC60947	A	110
	GB14048 stand		
Ac control circuit characteristics			
Rated control circuit voltage (Us)	50Hz、50/60Hz	V	AC24V、AC36V、AC48V、AC110V、AC220V、AC380V、AC400V、AC415V
	DC	V	DC24V、DC48V、DC110V、DC220V
Rated control limit	ardactuation	V	85%~110%Us
	Release	V	AC 20%~70%Us;DC 10%~70%Us
Average power consumption	start	VA	40
	hold	VA	7
Heat loss		W	1.3
Action time	Close "C"	ms	5~15
	Open "O"	ms	10~20
Mechanical life	Ten thousand times		1200
Maximum operating frequency	Number of operations per hour (≤40℃)		3600

Wiring Diagram

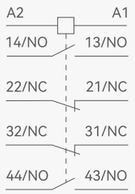
GLJ1-04



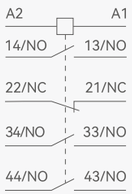
GLJ1-13



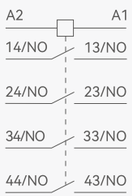
GLJ1-22



GLJ1-31

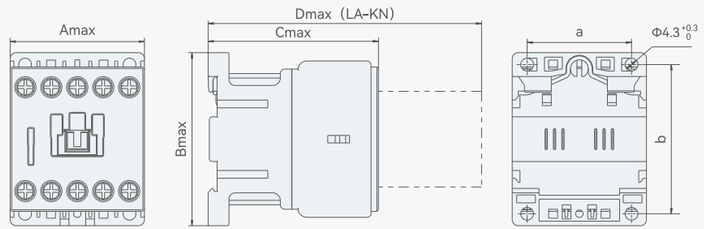


GLJ1-40



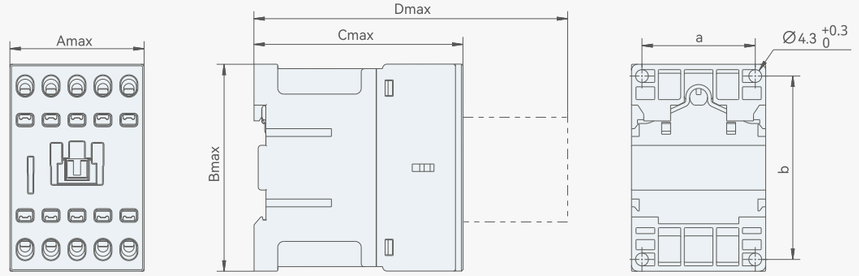
Dimensions(mm)

GLJ1



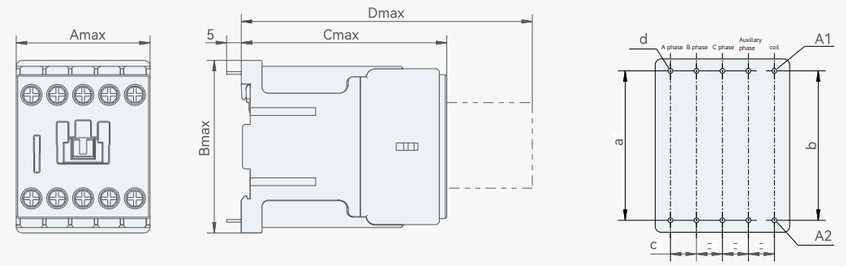
Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLJ1	45.5	58.5	57.5	92	35	50
GLJ1Z	45.5	58.5	70	104	35	50

GLJ1TZ



Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b
GLJ1TZ	45.5	69.5	70	104	38	61.5

GLJ1YZ



Model Specification (mm)	Amax	Bmax	Cmax	Dmax	a	b	c	d
GLJ1YZ	45.5	58.5	70	104	50	50	8.7	1.6

Characteristics

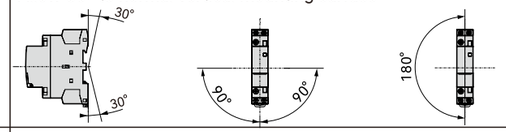
- ultra-silent
- Ultra-long life, AC-7a electrical life of 100,000 times
- Automatic assembly inspection line
- GYHC modular contactor :16~100A, a total of 7 current specifications
- Certification :CCC, CE, CB
- Standards :IEC61095,IEC60947-1,GB/T17885,GB/T14048.1

Model and connotation

GY H C - 16 10 AC230

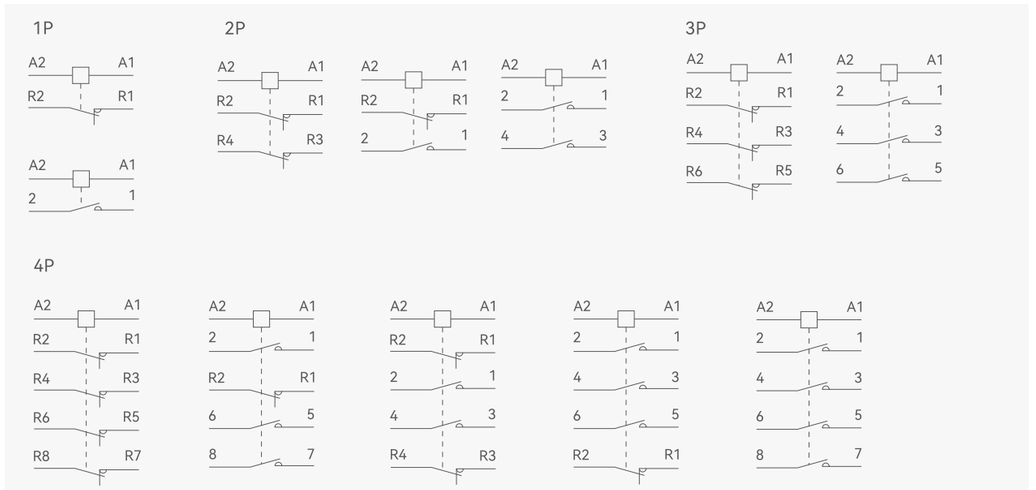
- Coil voltage: AC24V AC48V AC110V AC230V DC12V(25A) DC24V
- Contact type: 10:1NO 01:1NC 11:1NO+1NC 20:2NO 02:2NC 22:2NO+2NC 30:3NO 03:3NC 31:3NO+1NC 40:4NO 04:4NC
- Rated current: 16:16A 20:20A 25:25A 32:32A 40:40A 63:63A 100:100A
- Ac contactor
- Modularization (home)
- Corporate code

Technical parameters

Contactor type number			GYHC -16		GYHC -20		GYHC -25		GYHC -32		GYHC -40		GYHC -63		GYHC -100	
type			1P/2P/3P/4P													
Rated operating current (Ie)	AC-1(AC-7a)	A	16		20		25		32		40		63		100	
	AC-3(AC-7b)	A	6		7		9		12		15		20		48	
Rated operating voltage (Ue)		V	250(1P/2P);400(3P/4P)													
Number of poles			1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P
Rated working power (Pe)	AC-7a Control heater	kW	3.7	-	4.6	-	5.8	17.3	-	-	9.2	27.6	27.7	43.6	23	69.3
	AC-7b Control motor	kW	0.9	-	1.3	-	1.3	4	-	-	3.7	11	5	15	-	-
Working environment																
Rated insulation voltage (Ui)		V	500													
Rated impulse withstand voltage (Uimp)		kW	4													
Pollution level			2													
Meet the standard			IEC 61095, IEC 60947-1, GB/T 17885, GB/T 14048.1													
Product certificate			CCC,CE,CB													
Class of protection			IP20													
Ambient temperature	store	℃	-60~-80													
	professional	℃	-25~+60													
	Allowed to work under Us	℃	-40~+60													
Maximum working altitude	No volume reduction	m	2000													
Working position The installation category is Class III	No volume reduction		Allow 30° to normal vertical mounting surface 													
Main loop connection																
Hard line		mm^2	1.5…6		1.5…6		1.5…6		6…25		6…25		6…25		6…25	
Flexible cable with terminal		mm^2	1…4		1…4		1…4		6…16		6…16		6…16		6…16	
tool	Phillips screwdriver		PH1		PH1		PH1		PH2		PH2		PH2		PH2	
	Flat-head screwdriver		Φ4		Φ4		Φ4		Φ6		Φ6		Φ6		Φ6	
Tightening torque		N.m	0.8		0.8		0.8		3.5		3.5		3.5		3.5	

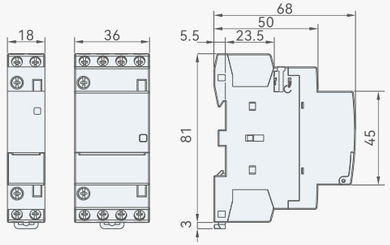
Contactor type number			GYHC -16	GYHC -20	GYHC -25	GYHC -32	GYHC -40	GYHC -63	GYHC -100
Main loop connection									
Hard line		mm^2	1.5…6	1.5…6	1.5…6	6…25	6…25	6…25	6…25
Flexible cable with terminal		mm^2	1…4	1…4	1…4	6…16	6…16	6…16	6…16
tool	Phillips screwdriver		PH1	PH1	PH1	PH2	PH2	PH2	PH2
	Flat-head screwdriver		Φ4	Φ4	Φ4	Φ6	Φ6	Φ6	Φ6
Tightening torque		N.m	0.8	0.8	0.8	3.5	3.5	3.5	3.5
Control circuit connection									
The flexible cable has no terminal		mm^2	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5
Flexible cable with terminal		mm^2	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5
tool	Phillips screwdriver		PH1	PH1	PH1	PH1	PH1	PH1	PH1
	Flat-head screwdriver		Φ4	Φ4	Φ4	Φ4	Φ4	Φ4	Φ4
Tightening torque		N.m	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Main contact characteristics									
Rated operating current (Ie)	AC-1(AC-7a)	A	16	20	25	32	40	63	100
	AC-3(AC-7b)	A	6	7	9	12	15	20	48
Rated operating voltage		V	250(1P/2P);400(3P/4P)						
Frequency range	Working current	Hz	50、50/60						
Conventional heating current (Ith)	θ≤40℃	A	25			63			100
Electrical life	AC-7a	Ten thousand times	10						
Ac control circuit characteristics									
Rated control circuit voltage (Us)	50/60Hz	V	24、48、110、230						
	DC	V	12、24						
Rated control limit	actuation	V	75%~110%Us						
	Release	V	AC 20%~70%Us;DC 10%~70%Us						
Average power consumption	50Hz starting CosΦ=0.75	VA	15	45	15	45	15	45	45	53	45	53	45	53	53	106
	50Hz release CosΦ=0.3	VA	4	6	4	6	4	6	6	6.5	6	6.5	6	6.5	6.5	13
Heat loss	50Hz	w	1.2	1.6	1.2	1.6	1.2	1.6	1.6	2.1	1.6	2.1	1.6	2.1	2.1	4.2
Action time	Close "C"	ms	15					17								
	Open "o"	ms	20					20								
Mechanical life	Ten thousand times		1000													
Maximum operating frequency	Number of operations per hour (≤40℃)		3600													

Wiring Diagram

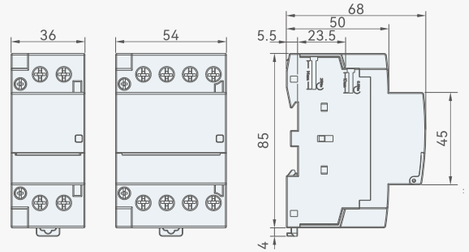


Dimensions(mm)

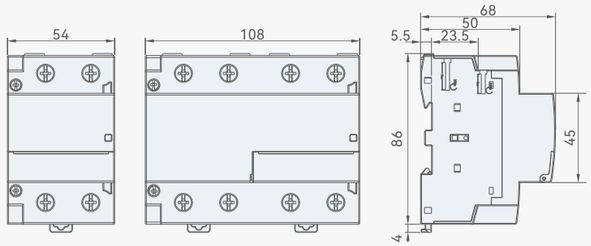
GYHC-16/20/25A



GYHC-32/40/63A



GYHC-100A



Characteristics

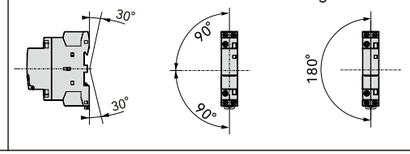
- ultra-silent
- Ultra-long life AC-7a electrical life of 100,000 times
- Automatic assembly inspection line
- GHC6 modular contactors :7 current specifications
  Certification :CCC, CE, CBStandards :IEC 61095,IEC 60947-1,GB/T17885, GB/T14048.1

Model and connotation

G H C 6 - 16 10 AC230

- Coil voltage: AC24V AC48V AC110V AC230V DC12V(25A) DC24V
- Contact type: 10:1NO 01:1NC 11:1NO+1NC 20:2NO 02:2NC 22:2NO+2NC 30:3NO 03:3NC 31:3NO+1NC 40:4NO 04:4NC
- Rated current: 16:16A 20:20A 25:25A 32:32A 40:40A 63:63A 100:100A
- Ac contactor
- Modularization (home)
- Corporate code

Technical parameters

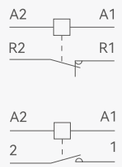
Contactor type number			GHC6 -16	GHC6 -20	GHC6 -25	GHC6 -32	GHC6 -40	GHC6 -63	GHC6 -100
type			1P/2P/3P/4P						
Rated operating current (Ie)	AC-1(AC-7a)	A	16	20	25	32	40	63	100
	AC-3(AC-7b)	A	6	7	9	12	15	20	48
Rated operating voltage (Ue)		V	250(1P/2P);400(3P/4P)						
Number of poles			1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P	1P/2P	3P/4P
Rated working power (Pe)	AC-7a	kW	3.7	-	4.6	-	5.8	17.3	-	-	9.2	27.6	27.7	43.6	23	69.3
	Control heater															
	AC-7b	kW	0.9	-	1.3	-	1.3	4	-	-	3.7	11	5	15	-	-
	Control motor															
Working environment																
Rated insulation voltage (Ui)		V	500													
Rated impulse withstand voltage (Uimp)		kW	4													
Pollution level			2													
Meet the standard			IEC 61095, IEC 60947-1, GB/T 17885, GB/T 14048.1													
Product certificate			CCC,CE,CB													
Class of protection			IP20													
Ambient temperature	store	℃	-60~-80													
	professional	℃	-25~+60													
	Allowed to work under Us	℃	-40~+60													
Maximum working altitude	No volume reduction	m	2000													
Working position The installation category is Class III	No volume reduction		Allow 30° to normal vertical mounting surface 													
Main loop connection																
Hard line		mm^2	1.5…6	1.5…6	1.5…6	6…25	6…25	6…25	6…25
Flexible cable with terminal		mm^2	1…4	1…4	1…4	6…16	6…16	6…16	6…16
tool	Phillips screwdriver		PH1	PH1	PH1	PH2	PH2	PH2	PH2
	Flat-head screwdriver		Φ4	Φ4	Φ4	Φ6	Φ6	Φ6	Φ6
Tightening torque		N.m	0.8	0.8	0.8	3.5	3.5	3.5	3.5
Control circuit connection																
The flexible cable has no terminal		mm^2	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5	2*1.5
Flexible cable with terminal		mm^2	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5	2*2.5

GHC6 Series Modularization contactor

Contactor type number			GHC6 -16	GHC6 -20	GHC6 -25	GHC6 -32	GHC6 -40	GHC6 -63	GHC6 -100
tool	Phillips screwdriver		PH1	PH1	PH1	PH1	PH1	PH1	PH1
	Flat-head screwdriver		Φ4	Φ4	Φ4	Φ4	Φ4	Φ4	Φ4
Tightening torque		N.m	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Main contact characteristics									
Rated operating current (Ie)	AC-1(AC-7a)	A	16	20	25	32	40	63	100
	AC-3(AC-7b)	A	6	7	9	12	15	20	48
Rated operating voltage		V	250(1P/2P);400(3P/4P)						
Frequency range	Working current	Hz	50、50/60						
Conventional heating current (Ith)	θ≤40℃	A	25			63			100
Electrical life	AC-7a	万次	10						
Ac control circuit characteristics									
Rated control circuit voltage (Us)	50/60Hz	V	24、48、110、230						
	DC	V	12、24						
Rated control limit	actuation	V	75%~110%Us						
	Release	V	AC 20%~70%Us;DC 10%~70%Us						
Average power consumption	50Hz starting CosΦ=0.75	VA	15 45	15 45	15 45	45 53	45 53	45 53	53 106
	50Hz release CosΦ=0.3	VA	4 6	4 6	4 6	6 6.5	6 6.5	6 6.5	6.5 13
Heat loss	50Hz	w	1.2 1.6	1.2 1.6	1.2 1.6	1.6 2.1	1.6 2.1	1.6 2.1	2.1 4.2
Action time	Close "C"	ms	15			17			
	Open "0"	ms	20			20			
Mechanical life	Ten thousand times		1000						
Maximum operating frequency	Number of operations per hour (≤40℃)		3600						

Wiring Diagram

1P



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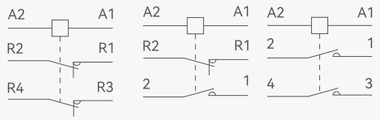
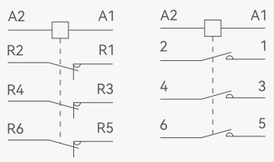


3P



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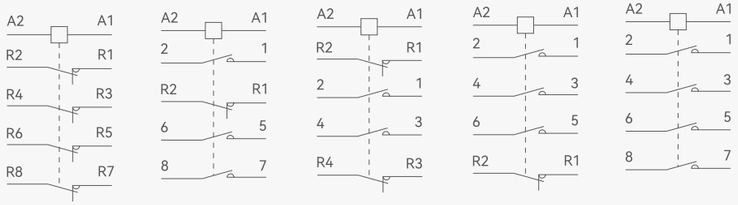
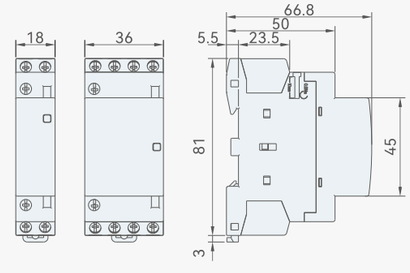
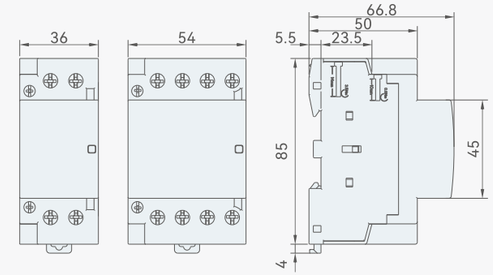


Dimensions(mm)

GHC6-16/20/25



GHC6-32/40/63



Applicable scope

- The GHC7 modular contactor (hereinafter referred to as contactor) is mainly suitable for AC 50Hz (or 60Hz), rated working voltage to 400V and rated current operation in the circuit up to 63A, it can control the low-inductance and low-inductance load ofhousehold appliances and similar purposes; it can also be used to control the load of household motors. The power should bereduced accordingly.
- The GHC7 contactors according to standard IEC/EN61095，IEC60947-4-1 and are used mainly in buildings for switching and controlling lighting, heating, ventilation and pumps. They are part of the complete range of Din rail products and can beintegrated easily in dedicated panels.

Model and connotation

GHC7- □□/□□□

- Coil Voltage
- Normal Clos
- Normal Open
- Current
- MUTE

(eg. GHC7-25/20 230V . It is 25A , 2NO ,230V AC current coil voltage)

1P,1modules

Contactor Model	Ie Rating AC-7a	AC-1	AC-7b	AC-3	Uc	Circuit Diagram
GHC7-16/10	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 A2 2
GHC7-20/10	20A		7A			
GHC7-25/10	25A		9A			
GHC7-32/10	32A		12A			
GHC7-16/01	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 A2 R2
GHC7-20/01	20A		7A			
GHC7-25/01	25A		9A			
GHC7-32/01	32A		12A			

1P,2modules

Contactor Model	Ie Rating AC-7a	AC-1	AC-7b	AC-3	Uc	Circuit Diagram
GHC7-40/10	40A		18A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 A2 2
GHC7-63/10	63A		25A			
GHC7-40/01	40A		18A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 A2 R2
GHC7-63/01	63A		25A			

2P,1modules

Contactor Model	Ie Rating AC-7a	AC-1	AC-7b	AC-3	Uc	Circuit Diagram
GHC7-16/20	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 3 A2 2 4
GHC7-20/20	20A		7A			
GHC7-25/20	25A		9A			
GHC7-32/20	32A		12A			
GHC7-16/11	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 1 A2 R2 2
GHC7-20/11	20A		7A			
GHC7-25/11	25A		9A			
GHC7-32/11	32A		12A			
GHC7-16/02	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 3 A2 2 4
GHC7-20/02	20A		7A			
GHC7-25/02	25A		9A			
GHC7-32/02	32A		12A			

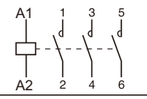
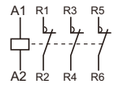
2P,2modules

Contactor Model	Ie Rating AC-7a	AC-1	AC-7b	AC-3	Uc	Circuit Diagram
GHC7-40/20	40A		18A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 3 A2 2 4
GHC7-63/20	63A		25A			
GHC7-40/11	40A		18A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 1 A2 R2 2
GHC7-63/11	63A		25A			
GHC7-40/02	40A		18A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 3 A2 2 4
GHC7-63/02	63A		25A			

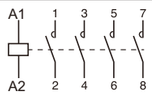
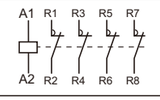
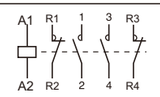
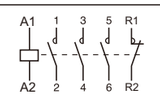
3P,2modules

Contactor Model	Ie Rating AC-7a	AC-1	AC-7b	AC-3	Uc	Circuit Diagram
GHC7-16/30	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 3 5 A2 2 4 6
GHC7-20/30	20A		7A			
GHC7-25/30	25A		9A			
GHC7-32/30	32A		12A			
GHC7-16/03	16A		6A		12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 R3 R5 A2 R2 R4 R6
GHC7-20/03	20A		7A			
GHC7-25/03	25A		9A			
GHC7-32/03	32A		12A			

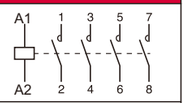
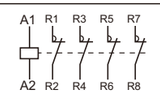
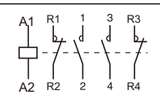
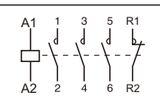
3P,3modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
GHC7-40/30	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/30	63A	25A		
GHC7-40/03	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/03	63A	25A		

4P,2modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
GHC7-16/40	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-20/40	20A	7A		
GHC7-25/40	25A	9A		
GHC7-32/40	32A	12A		
GHC7-16/04	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-20/04	20A	7A		
GHC7-25/04	25A	9A		
GHC7-32/04	32A	12A		
GHC7-16/22	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-20/22	20A	7A		
GHC7-25/22	25A	9A		
GHC7-32/22	32A	12A		
GHC7-16/31	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-20/31	20A	7A		
GHC7-25/31	25A	9A		
GHC7-32/31	32A	12A		

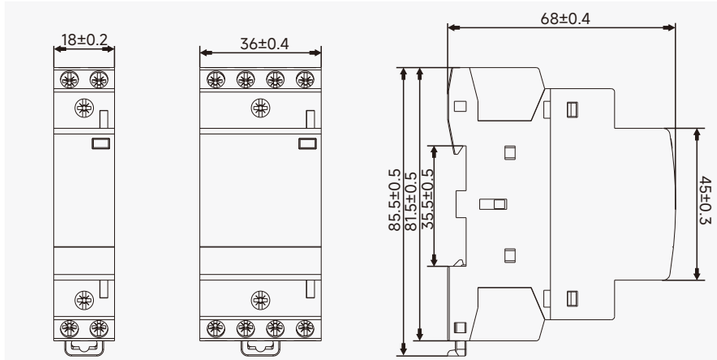
4P,3modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
GHC7-40/40	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/40	63A	25A		
GHC7-40/04	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/04	63A	25A		
GHC7-40/22	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/22	63A	25A		
GHC7-40/31	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
GHC7-63/31	63A	25A		

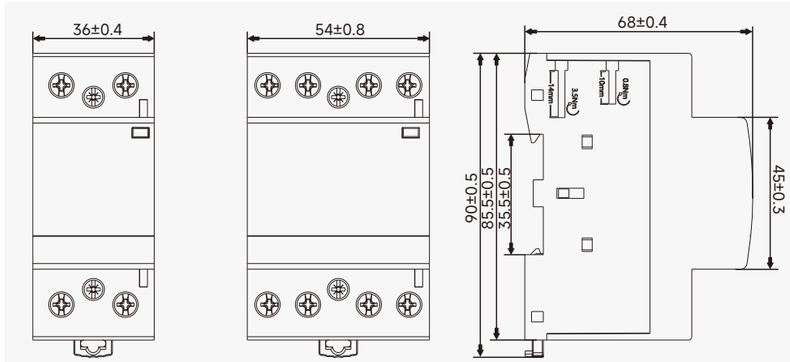
Modular contactor power consumption

Poles	Ie Rating		Uc (VAC)(50Hz)	Power consumption		Max Power
	AC-7a	AC-7b		Hold on	Pull in	
2P	16A	6A	230	2.1VA	2.1VA	2.0W
	20A	7A	230	2.1VA	2.1VA	2.0W
	25A	9A	230	2.1VA	2.1VA	2.0W
	32A	12A	230	2.1VA	2.1VA	2.0W
	40A	18A	230	2.3VA	2.3VA	2.0W
	63A	25A	230	2.3VA	2.3VA	2.0W
4P	16A	6A	230	2.3VA	2.3VA	2.0W
	20A	7A	230	2.3VA	2.3VA	2.0W
	25A	9A	230	2.3VA	2.3VA	2.0W
	32A	12A	230	2.3VA	2.3VA	2.0W
	40A	18A	230	6.0VA	6.0VA	5.5W
	63A	25A	230	6.0VA	6.0VA	5.5W

Dimensions(mm)



GHC7-16/20/25/32



GHC7-40/63

GYC1 Contactor

Feature

- 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.

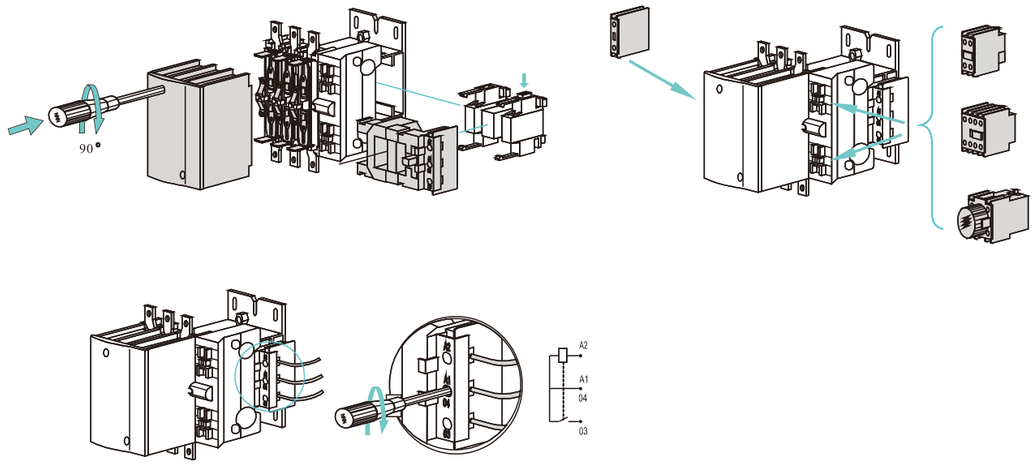
Technical Specification

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、ZTCSR、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	

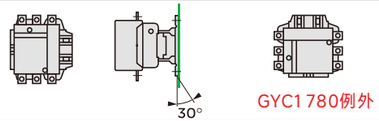
Functions Diagram

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	1000
Frequency limits	Frequency under operating current	Hz	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...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 10XIe(AC-3) or 12XIe(AC-4)										
Breaking capacity I rms	GB14048.4	A	Making and breaking current 8XIe(AC-3) or 10XIe(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	22200	1700
Average impedance per pole	Ith 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 20x3	2 25x3	2 25x3	2 32x3	2 32x4	2 30x5	2 30x5	2 40x5	2 60x5	2 100x5	2 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



Characteristic

Contactors			GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 630	GYC1 330	GYC1 400	GYC1 630
Environment	Conforming to standards IEC60947												
Rated insulation voltage（Ui）		V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage（Uimp）		KV	8	8	8	8	8	8	8	8	8	8	8
Rated operational voltage（Ue）max		V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Operational current frequency range		Hz	25-400										
Conforming to standards			IEC60947, GB14048, EN60947										
Ambient air temperature	Storage	℃	-60...+80										
	Operatio	℃	-5...+55										
	Permissible for operation	℃	-40...+70										
Maximum operating altitude		m	2000										
	Operating altitude allowed	m	3000										
Humidity			Maximum relative humidity less than 50% below 40℃, Maximum relative humidity less than 90% below 20℃										
Impact resistance capability 1/2 sine wave = 11ms	Contactor opens		9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn
	Contactor closes		15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn
Seismic performance	Contactor opens		2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn
	Contactor closes		4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn
Anti-seismic performance			Pollution degree III										
Degree of protection	Main circuit		Avoid direct contact with the finger (terminal protectioncap)										
	Coil terminals		Avoid direct contact with the finger										
Mounting method	Without deratin		 GYC1 780例外										
	With derating		 Use derating factors as follows: Operation voltage: 0.75,drop-out voltage: 0.9 AC-1 category operating current: 0.8.  Use derating factors as follows: Operation voltage: 1.15,drop-out voltage: 1.1 AC-1 category operating current: 0.8.										
	Forbidden												
Operating frequency	AC-1,AC-2,AC-3	Cycles/h	1200	1200	1200	1200	1200	600	600	600	600	600	600
	AC-4	Cycles/h	300	300	300	300	300	300	300	300	300	300	300
Control circuit characteristics Rated control voltage (Uc)	50/60Hz	V	Please specify control voltage when placing orders, default voltage is 220V.										
Control voltage limits（AC） (θ≤55°C)	Operation voltage	V	0.85-1.1Uc										
	Drop-out voltage (AC)	V	0.2-0.75Uc										
	Drop-out voltage (DC)	V	0.1-0.75Uc										
Average power 50Hz	Inrush (AC)	VA	550	550	810	810	1200	600	1000	1050	1500	1900	1600
	Sealed (DC)	VA	45	45	55	55	85	10	12	16	20	45	22
	Inrush (DC)	VA	550	550	740	740	660	660	920	1000	1420	1960	1450
	Sealed (AC)	VA	4	4	4.2	4.2	3.7	3.7	4	4.5	6.5	42	7