

 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.

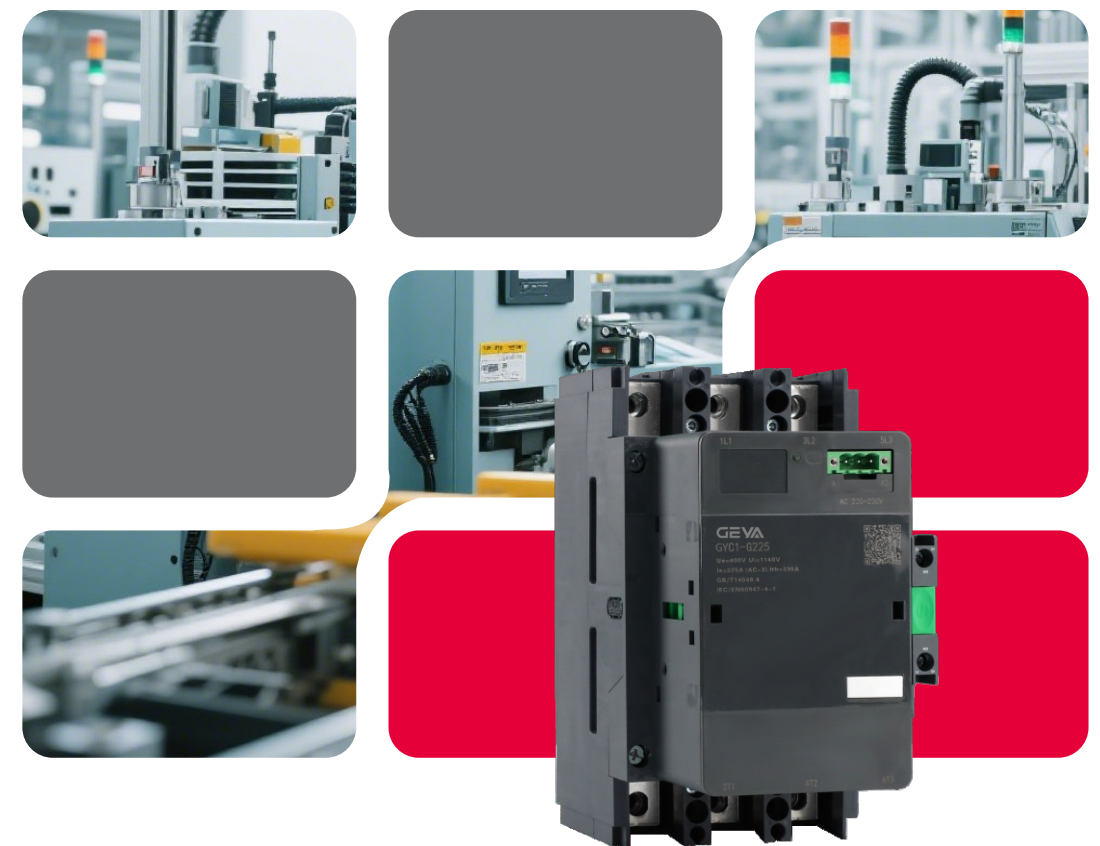
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GEYA

ZHEJIANG GEYA ELECTRICAL CO.,LTD

G series Contactors

Control and Protection Components



GEYA

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 **GEYA**
Electrical

COMPANY PROFILE



ZHEJIANG GEYA ELECTRICAL CO.,LTD

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!



GYC1-G

A new generation of AC contactors

Based on years of professional experience and successful practice, combined with higher application requirements, integrated with a number of revolutionary innovative technologies, the design is more reasonable, performance is better Superior is the best upgrade product of traditional contactor. It is widely used in all kinds of motors, new energy and power distribution control to meet your different automation needs. The new generation of G series contactors show higher performance and longer service life in different application scenarios. It is compact, easy to install and maintain, and has higher safety. Through flexible control mode and function selection, the G series contactors can provide you with more intelligent, economical and efficient solutions.

Keep up with the times and innovate intelligently



The digital age puts forward higher requirements for the reliability of safe electricity use. The G series contactor can be equipped with advanced fault diagnosis and life prediction function modules, which can obtain information such as operation health status, faults and life diagnosis through the product display panel or network communication, providing a physical basis for intelligent operation and maintenance, helping you improve electrical safety, reduce maintenance time, and significantly improve production efficiency.

Excellent performance and durability



The G series contactor has a new optimized design that reduces arc and bounce time, improves short-term endurance, has an extremely long service life, and has the performance to coordinate with short circuit protection appliances (SCPD), greatly improving the electrical life index under AC-4 usage category.

Easy to install and maintain



The G series contactor can be directly connected with the circuit breaker. The main circuit is equipped with a quick connection module, and the control circuit uses quick plug-in terminals, which brings great convenience to your installation and use. The modular structure can be checked or replaced on the front without reserving space on the side, making maintenance easier and more convenient.

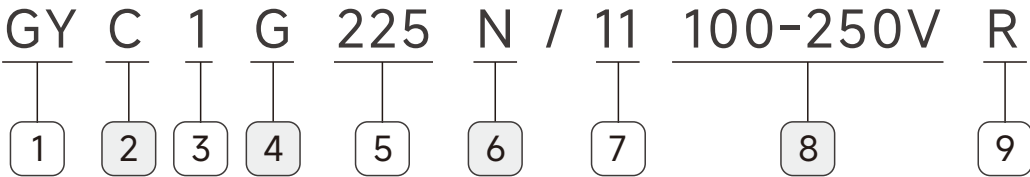
Silent energy saving, green environmental protection



The G series contactor adopts electronic intelligent or dual coil control mode to achieve low energy consumption and energy saving operation, and the DC excitation mode realizes noiseless silent operation. All materials and production processes comply with the requirements of RoHS2.0 environmental protection directive, meeting your wider needs.

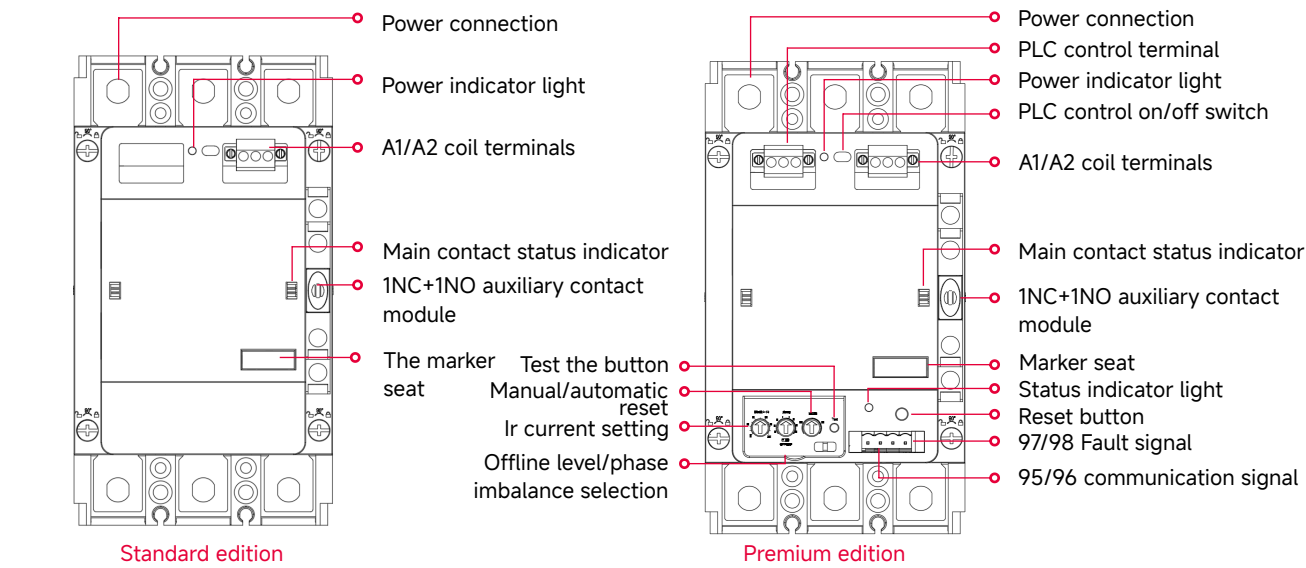


Product types choosing



NO.	Name	Explain
1	Corporate code name	
2	Product code	C: AC contactor
3	Design sequence number	1
4	Series code	G: "G series" high performance AC contactor
5	Size of product	Rated working current (A) at rated working voltage of 440V: 115、150、185、225、265、330、400、500、630、800;
6	Combination type	Blank: No combination N: reversible interlock contactor
7	Auxiliary module	auxiliary contacts: 11:1 open 1 close (standard, can be omitted) 22:2 open 2 close
8	Control voltage	Alternating current and DC wide voltage (AC/DC): 24-60V (only G115-G225),48-130V,100-250V,200-500V Communication (50/60Hz): 110V,220V,380V
9	Smart module	Blank: None R: Intelligent protection module

Panel indication and functional configuration



● Standard configuration ○ Apolegamy — Cannot be provided

	Standard			Premium edition		
Basic specifications	115-225	265-500	630-800	115-225	265-500	630-800
Standard features						
AC/DC, wide voltage control		●			●	
AC electronic dual coil control		○			—	
PLC control		—			●	
Operation instructions		●			●	
Main contact status indicator		●			●	
Main circuit quick connection device		●			●	
A1/A2 Fast plug terminal		●			●	
Auxiliary module (1 open 1 closed)		●			●	
Phase protection partition		●			●	
Marker seat		●			●	
Under-voltage protection for coils		●/○			●	
Value-added function						
Three-phase current detection		—			●	
Overload/overcurrent protection		—			●	
Phase loss protection		—			●	
Three-phase imbalance protection		—			●	
485 Communications		—			●	
95/98 Fault signal output		—			●	
Test function of disconnection		—			●	
Fault logging function		—			●	
Fault reset function		—			●	
Biometrics		—			○	
Select accessories						
IP20 Protective cover		○			○	
Interlocking mechanism parts		○			○	
Auxiliary module		○			○	
Expand the copper plate		○			○	
Reversible suite		○			○	
bus-bar		○			○	
Overvoltage suppressor		○			○	
Chain the mounting base plate		○			○	

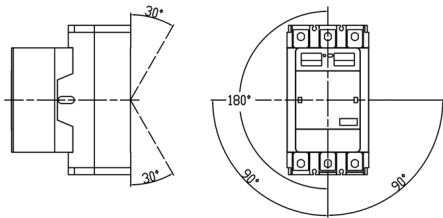
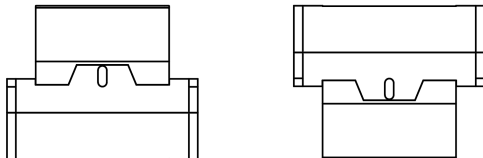
Technical Parameter

Contactor model			G115	G150	G185	G225	G265	G330	G400	G500	G630	G800
Rated operational current	AC-3/AC-3e $\theta \leq 60^{\circ}\text{C}$ ($\text{Ue} \leq 440\text{V}$)	A	115	150	185	225	265	330	400	500	630	800
	AC-1 $\theta \leq 40^{\circ}\text{C}$	A	250	275	305	330	385	440	550	700	800	1050
Rated operational voltage	Highest	V	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
Nominal insulation voltage	Overvoltage category iii, pollution level 3	V	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Rated impact, withstand voltage	The coil is not connected to the main circuit	KV	12	12	12	12	12	12	12	12	12	12
The heating current is defined	$\theta \leq 40^{\circ}\text{C}$	A	250	275	305	330	385	440	550	700	1050	1050
Rated capacity	14048.4	A	Connect the current 10 x Ie (AC-3) or 12 x Ie (AC-4)									
Rated breaking capacity	14048.4	A	Closed and broken current 8 x Ie (AC-3) or 10 x Ie (AC-4)									
Short time withstand current	10s	A	1100	1200	1500	1800	2200	2650	3600	4000	5050	5500
	30s	A	640	700	920	1000	1230	1800	2400	2800	4400	4600
	1min	A	520	600	740	850	950	1300	1700	2200	340	3600
	3min	A	400	450	500	560	620	900	1200	1500	220	2600
	10min	A	320	350	400	440	480	750	1000	1200	1600	1700
Rated working power (AC-3)	230V	kW	30	37	55	55	75	90	110	160	200	250
	400V	kW	55	75	90	110	132	160	200	250	335	450
	415V	kW	55	75	90	110	132	160	200	250	375	450
	440V	kW	65	80	100	129	150	185	220	315	400	450
	500V	kW	65	90	110	132	160	200	250	355	400	500
	690V	kW	75	90	110	160	200	220	315	355	500	560
	1000V	kW	75	75	75	132	160	185	220	335	450	450
Short circuit protection is provided by melting and wire	Type aM $\text{Ue} \leq 440\text{V}$	A	125	160	200	250	315	400	500	500	630	800
	Type aM $\text{Ue} \leq 690\text{V}$	A	125	160	160	2000	250	250	315	400	500	630
	Type gGUe $\leq 1140\text{V}$	A	315	315	315	400	400	500	630	800	1250	1250
Provided through fuses	$\text{Ue} \leq 440\text{V}$		125	160	200	225	225	350	400	500	630	800
Average impedance per pole	@Ith and 50Hz	mΩ	0.3	0.3	0.3	0.3	0.3	0.2	0.15	0.15	0.070	0.065

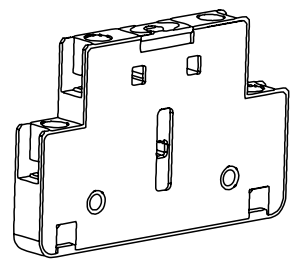
Technical Parameter

Contactor model				G115	G150	G185	G225	G265	G330	G400	G500	G630	G800
The dissipation power consumption per pole of the working current is calculated	AC-3		W	3	5	6	8	11	16	16	20	26	42
	AC-1		W	10	10	20	20	20	30	30	40	70	70
Connections/ wiring (maximum cross section)	Line up	Number of wires		2	2	2	2	2	2	2	2	2	2
		Wire size	mm	25X6	25X6	25X6	25X6	32X10	32X10	32X10	32X10	52X20	52X20
	Cable with wiring sheet		mm	185	185	185	185	240	2X150	2X185	2X240	-	-
	Cable with connector		mm	185	185	185	185	240	-	-	-	-	-
	Diameter of bolt		mm	M8	M8	M8	M8	M10	M10	M10	M10	M12	M12
Secure torque	The circuit is connected		N.m	18	18	18	18	35	35	35	35	58	58
Nominal control voltage			V	AC(50/60Hz):110V、220V、380V; AC/DC:48-130V、100-250V、200-500V									
Control voltage range	Pull-in voltage		V	0.85UcMin...1.1UcMax									
	Release voltage		V	0.2UcMin...0.55UcMax									
Average power consumption	AC (50/60Hz) Dual coil	Actuation	VA	≤450	≤450	≤450	≤450	≤650	≤650	≤650	≤650	≤800	≤800
		keep	VA	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18
	AC/DC wide voltage	Actuation	VA	≤350	≤350	≤350	≤350	≤500	≤500	≤500	≤500	≤550	≤550
		keep	VA	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18	≤18
Actuation time	AC (50/60Hz) Dual coil	Close "C"	ms	30..60	30..60	30..60	30..60	40..70	40..70	40..70	40..70	40..70	40..70
		Break "O"	ms	30..60	30..60	30..60	30..60	40..70	40..70	40..70	40..70	40..70	40..70
	AC/DC wide voltage	Close "C"	ms	40..70	40..70	40..70	40..70	40..70	40..70	40..70	40..70	40..70	40..70
		Break "O"	ms	15..50	15..50	15..50	15..50	15..50	15..50	15..50	15..50	15..50	15..50
Mechanical life under Uc	Millions			8	8	8	8	8	8	8	8	5	5
Maximum operating frequency	Hourly operating cycle	AC-1		300	300	300	300	300	300	300	300	300	300
		AC-3		500	500	500	500	500	500	500	500	500	500
		AC-4		150	150	150	150	150	150	150	150	150	150
Coil control, intelligent module, PLC connection line				Minimum/maximum section									
	flexible	One wires with terminals	mm	0.25 ... 2.5									
		Two wires with terminals	mm	0.5 ... 1									
	Solid line	One wire	mm	0.2 ... 2.5									
		Length of stripping	mm	12									

Technical Parameter

Contactor model			G115-G225	G115-G500	G115-G800
The product meets the standard			IEC60947-4-1、GB14048.4		
Product certification			CCC		
Electromagnetic compatibility			IEC60947-4-1、GB14048.4		
Anti-interference			Complies with IEC60947-4-1, GB14048.4 Table 16		
Radiation			Environmental A complies with IEC60947-4-1 and GB14048.4		
Anti-electromagnetic radiation interference			20V/m, in accordance with IEC/EN 61000-4-3		
Voltage surge immunity (including in the overall product)			Complies with SEMI-F47		
levels of protection	Complies with IEC60529/VDE0106		IP2x with terminal cover		
Tolerance to climate			According to the IACS E10		
Working environment temperature around the equipment *	memory	℃	-60...+80		
	Work	℃	-25 ...+60		
	Within the allowable range under Uc	℃	-40... +70		
Maximum working altitude *	No derogation	m	3000		
Install the working position	No derogation				
	There is a reduction in capacity				
Shock resistance 1/2 sine wave.11ms Comply with IEC60068-2-6	The contactor is open	gn	10	10	8
	The contactor closes	gn	15	15	15
Seismic performance 5...300Hz Complies with IEC60068-2-3	The contactor is open	gn	2	2	2
	The contactor closes	gn	4	4	4

Module accessories

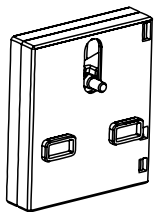


Auxiliary Module (ZF1N11)

Auxiliary contacts can be used to indicate the state of the contactor. It can be used for remote signal, alarm, electrical interlock, relay start, etc. Each contactor will be equipped with 1NO+1NC auxiliary contacts.
Mirror contacts for mechanical connections
The N/C contacts of the auxiliary contact module are mirror contacts in accordance with IEC60947-4-1 and are mechanically connected together to reliably indicate the state of the main contact, the auxiliary contact
The N/C contact cannot be closed at the same time as the normally open power contact. Each contactor can be equipped with up to four auxiliary contact modules.

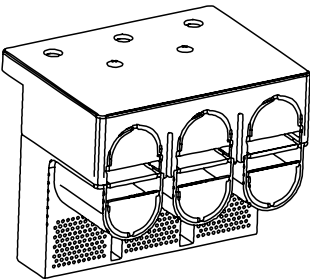
Electrical character

Rated thermal current	10A
Rated operational voltage Ue	690VAC
Nominal insulation voltage Ui	690V
Minimum load	1mA 17VDC



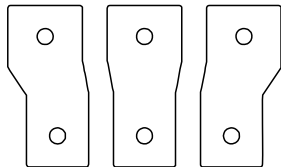
Interlocking module (ZF9G970)

Used for mechanical interlock between two contactors. Used between the same shell, suitable for G115-G800.



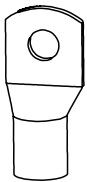
Protective cover (Ip20)

Compatible contactors	Order code
G115-G225	ZF9G3701
G265-G500	ZF9G3702
G630-G800	ZF9G3703



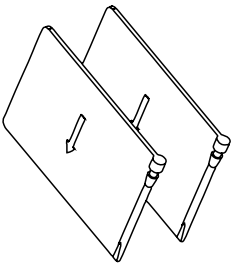
Terminal extender (external extension panel)

Compliant	Increase the pole distance	Order code
G115-G225	35→45mm	LA9G3711
G265-G500	45→70mm	LA9G3712
G630-G800	70→80mm	LA9G3713



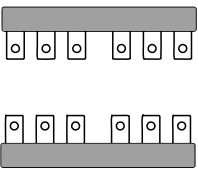
Cable terminal

Compliant	Compatible wires	Code
G115-G225	120mm ²	Lv429252
G115-G225	150mm ²	Lv429253
G115-G225	185mm ²	Lv429254
G265-G500	240mm ²	Lv432500
G630-G800	300mm ²	Lv432502



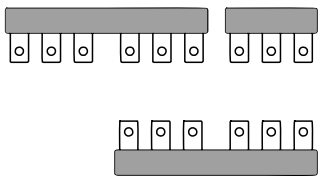
Phase partition

Compliant	Quantity/unit	Code
G115-G225	4	LA9G3801
G265-G500	4	LA9G3802
G630-G800	4	LA9G3803



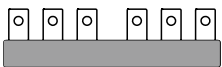
Forward and reverse connection kit

Compliant	Per set/unit	Code
G115-G225	1	LA9G3760
G265-G500	1	LA9G3761
G630-G800	1	LA9G3762



Star triangle connector kit

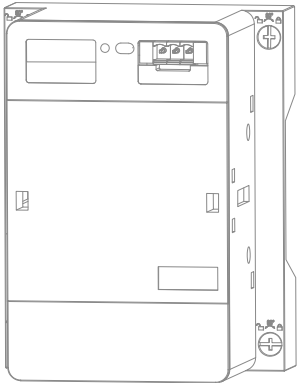
Compliant	Per set/unit	Code
G115-G225	1	LA9GQQ330
G265-G500	1	LA9GSS330
G630-G800	1	LA9GTT330



Dual power connection kit

Compliant	Per set/unit	Code
G115-G225	1	LA9G3750
G265-G500	1	LA9G3751
G630-G800	1	LA9G3752

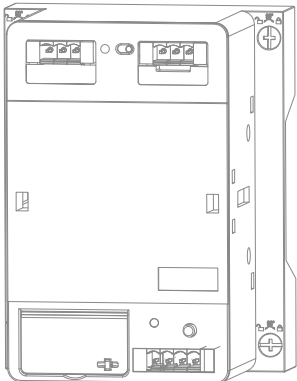
Module accessories



Control module

Standard edition

There are two types of AC/DC wide voltage electronic coils and AC (dual coils) (choose one)
AC/DC wide voltage: 24-60V (only G115-G225),48-130V,100-250V,200-500V
Communication (AC 50/60Hz): 110VAC; 220VAC; 380VAC; Control module
order number: G current specification + voltage
For example: G225100-250V

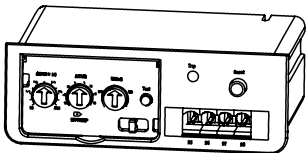


Premium edition:

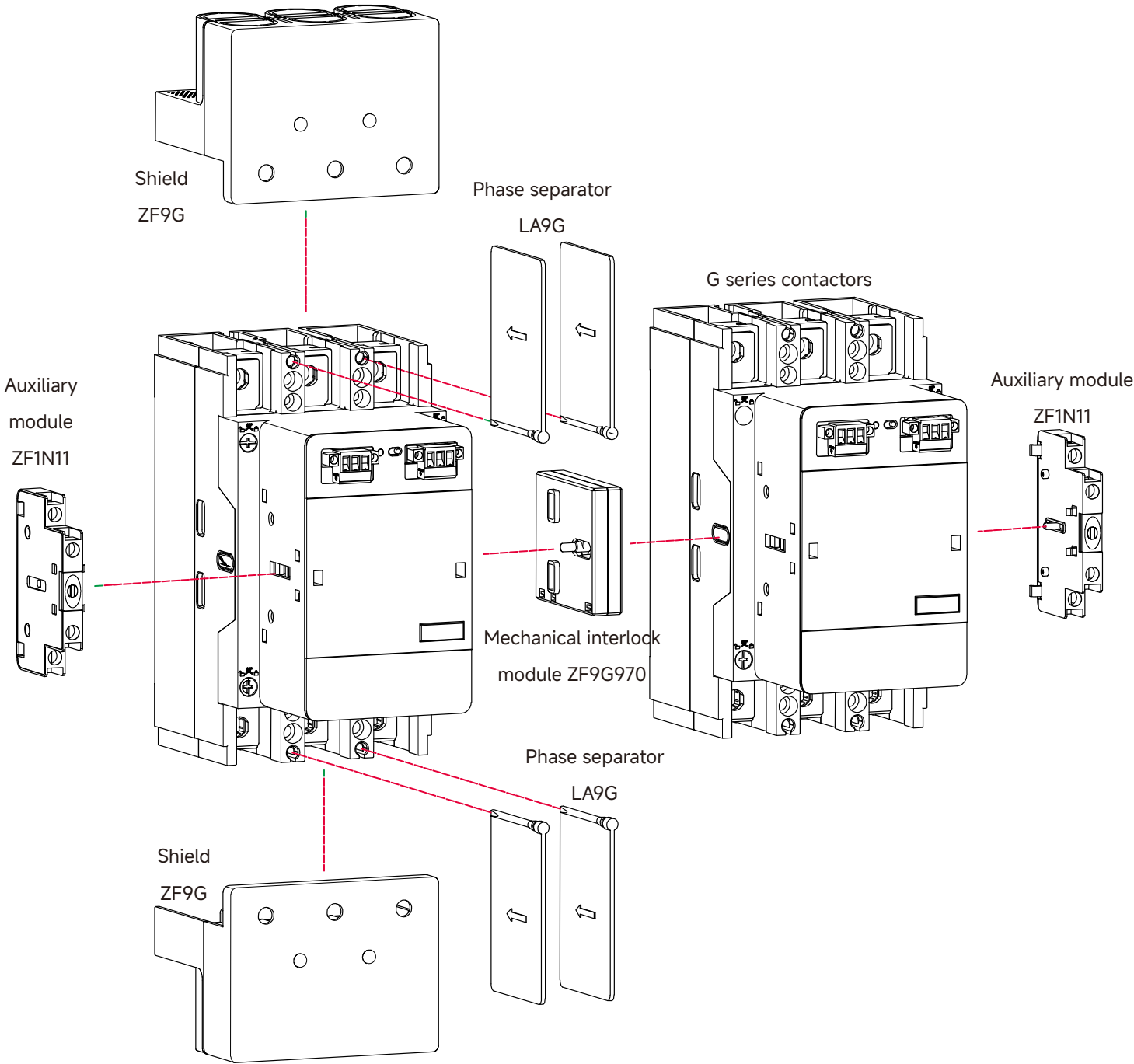
It includes: PLC control terminal, intelligent control module; standard wide voltage electronic coil:
AC/DC wide voltage: 24-60V (only G115-G225),48-130V,100-250V,200-500V
Control module order code: G current specification + voltage + R For example: G225100-250V R

Intelligent protection module (R)

- Electronic thermal overload relay
- Non-contact three-phase Hall current detection
- Manual mode or automatic mode (manual mode only alarm, no tripping) green dual color LED indicator light is set to indicate normal operation status and overload alarm status
- Trip level selection: 5E/10E/20E/30E thermal memory
- Plug-in screw terminals are easy to connect and fix
- The three-phase imbalance protection function can be enabled or disabled
- RS485 communication can obtain the operation information of the device in real time
- Manual disengagement test button, the user can test whether the overload disengagement circuit function is normal
- Non-contact main circuit temperature detection

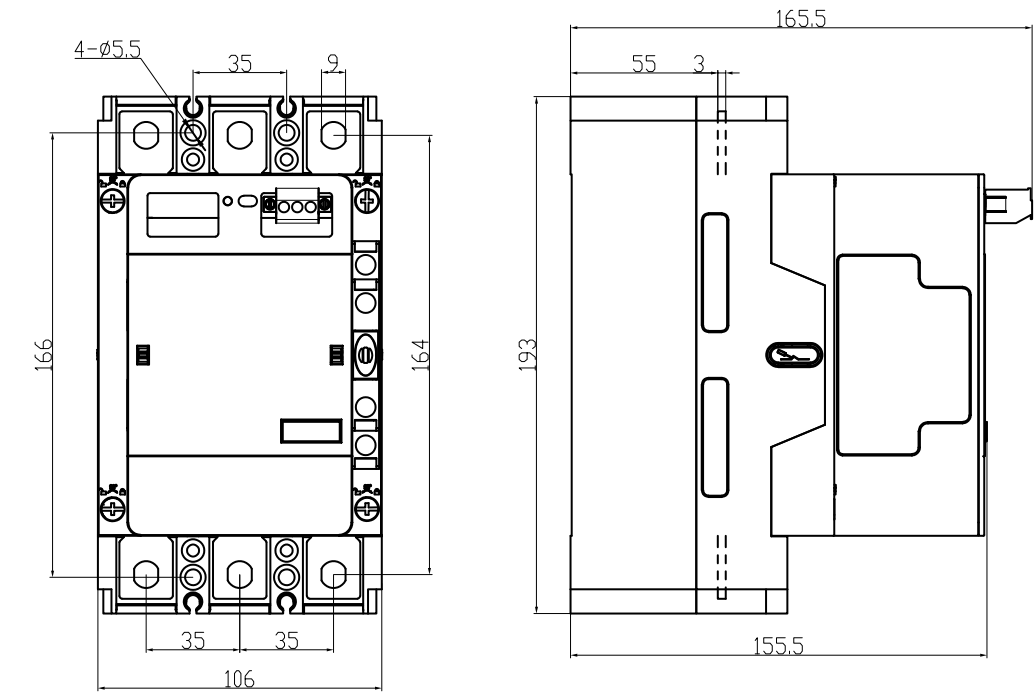


fitting arrangement drawing

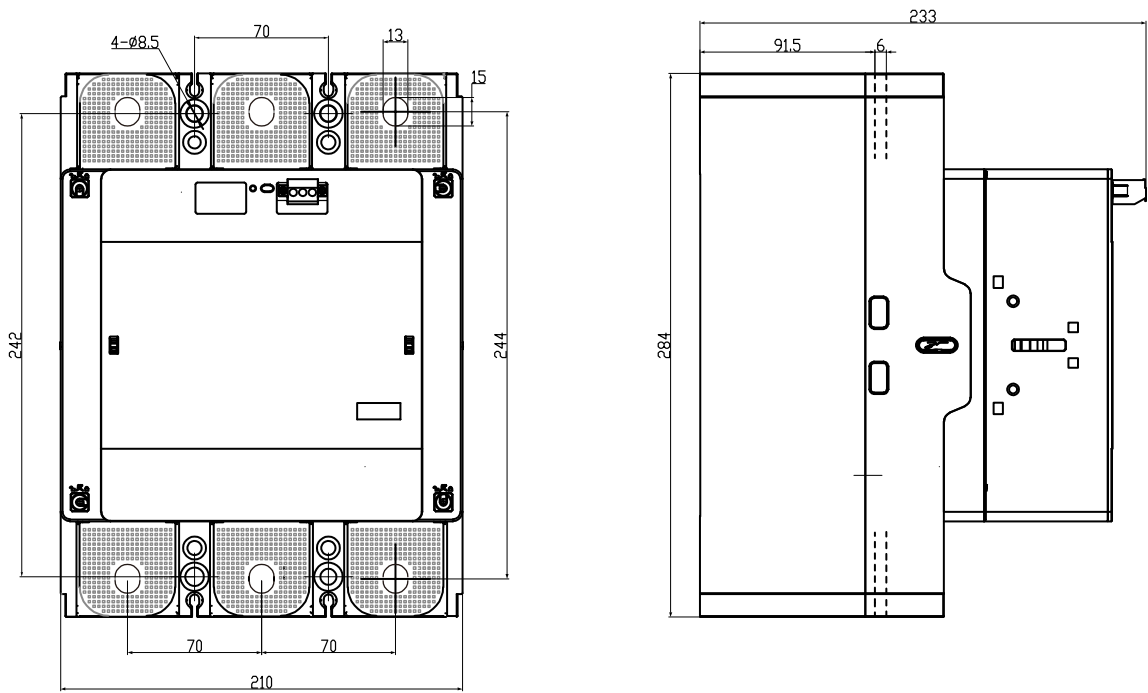


Appearance and installation dimensions

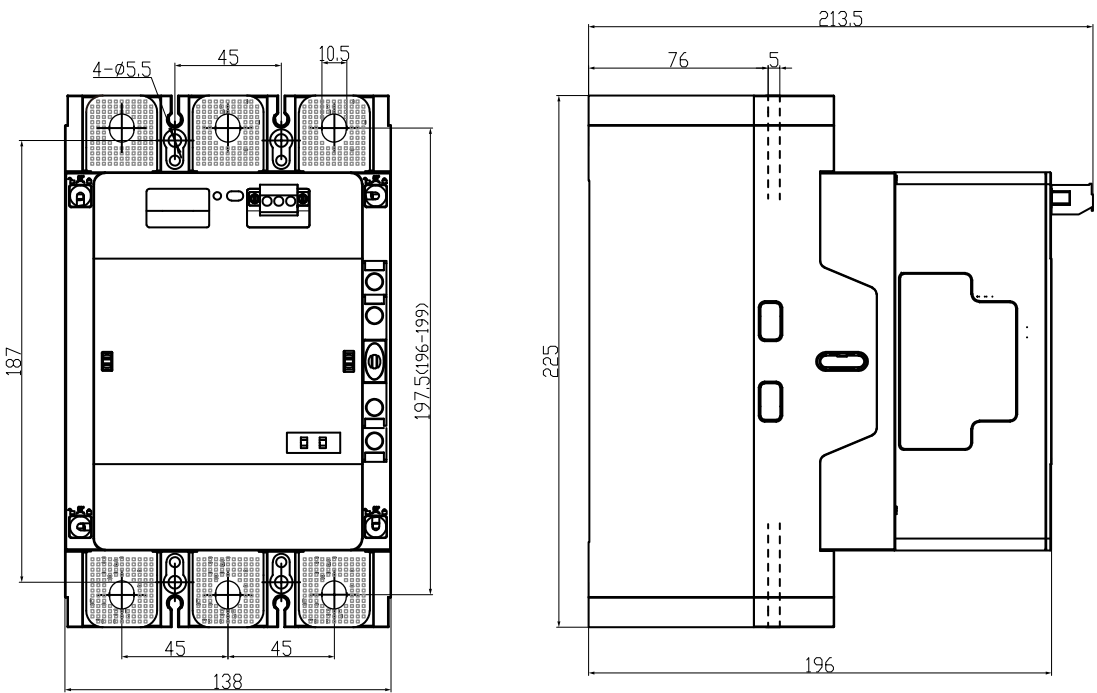
G115-G225



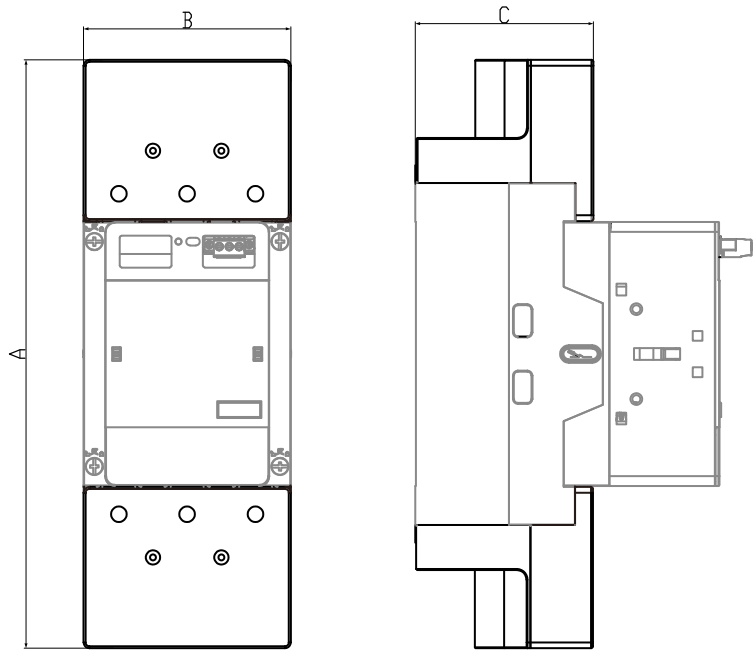
G630-G800



G265-G500



Install the protective cover



specifications	A	B	C
G115-G225	301	106	91.2
G265-G500	359	138	116
G630-G800	422	210	140

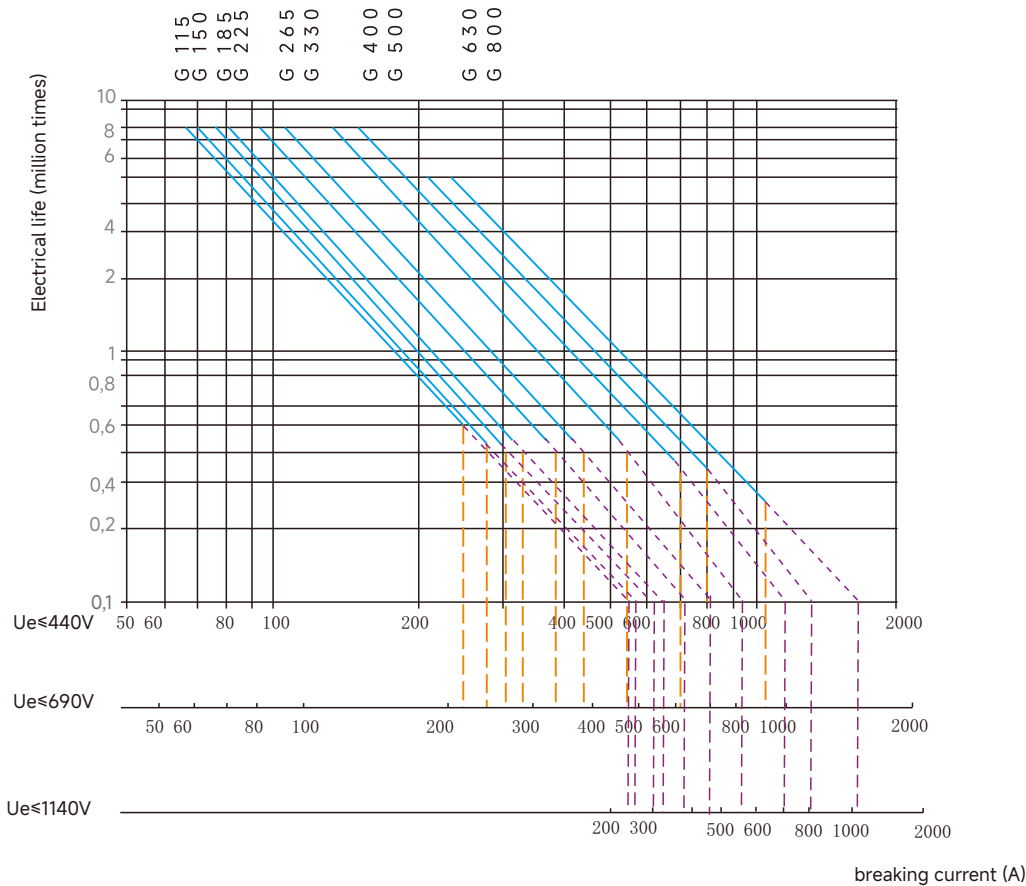
Appendix 1: Effects of High Temperature on the Operation of Contactors

Contactor model			G115	G150	G185	G225	G265	G330	G400	G500	G630	G800
maximum operating current	40°C	A	250	275	305	330	385	440	550	700	800	1050
	50°C	A	238	263	285	315	368	420	575	650	750	950
	60°C	A	225	250	275	300	350	400	500	600	700	800
	70°C	A	210	235	255	280	330	380	470	640	600	640

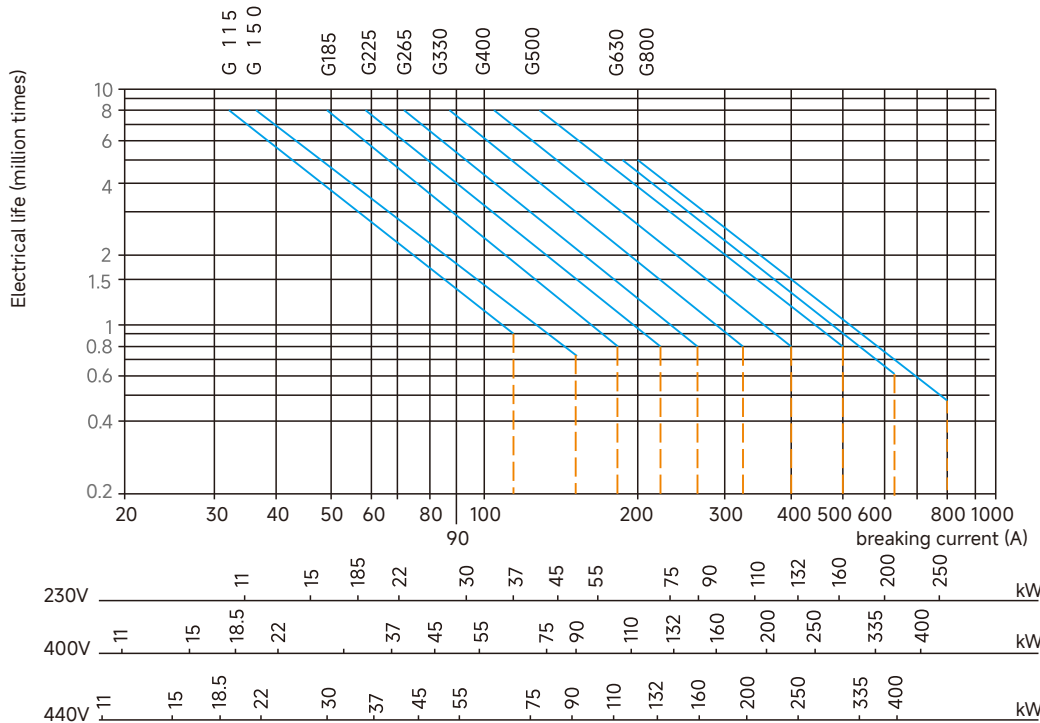
Appendix 2: Effects of High Altitude on the Operation of Contactors

above sea level	3000m	3500m	4000m	4500m	5000m
Rated operating current coefficient	1	0.92	0.9	0.88	0.86
Maximum working voltage coefficient	1	0.9	0.8	0.7	0.6

AC-1(Ue≤1140V)



AC-3/AC-3e(Ue≤440V)



AC-4(Ue≤440V)

