

HG Series

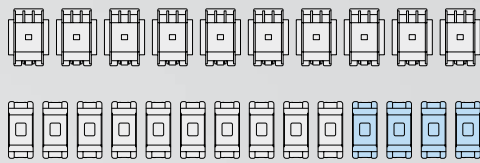
Magnetic Contactors & Overload Relays

Motor protection control solution that can be applied to various industrial equipment with strong durability and enhanced insulation performance!



Reduced Installation Area with upper Auxiliary Contact Structure

In the installation area for 10 units previously, 4 additional units can be installed with HG MC!



Various Product Ranges

18 AF ~ 800 AF (8 Frames)

Rated Insulation Voltage (Ui)

HGC 50 A ~ 800 A

Direct Connection with Overload Relay

HGT 18 AF ~ 800 AF

Auxiliary Relay – Power Consumption Power Saving Type

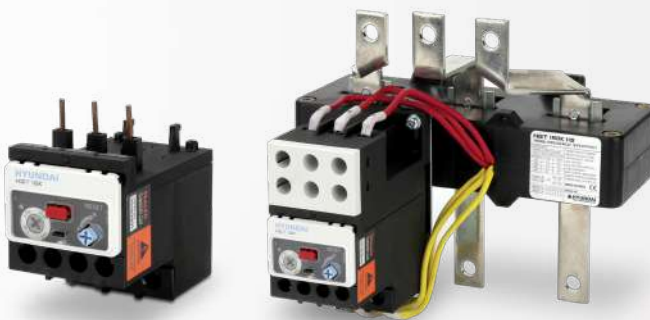
HGC DC : Permanent Magnet Applied

TOR Safety Protection Cover and Separated Test, Reset Buttons

Removable cover has been applied for safety.

AC/DC Free Voltage

HGC 115 A ~ 800 A



Overview and Characteristics

Product Characteristics

- Magnetic contactor is usually used for motor and equipment operation control and is applied to MCC and Thermal and Hydro power Panel.
- HD Hyundai provides a wide range of 9 A ~ 800 A of magnetic contactors and thermal/magnetic overload relays.



User Convenience

- User-Centered Design
- Compact Product and Convenient Wiring/Compatibility



Product Design

- Modular, Compact Design
- 30 % Compact Compared to the Previous Model



Technical Characteristics

- Optimized Structure
- IEC Standard



Product Reliability

- Quality Stabilization
- Specialized Design and Product Structure

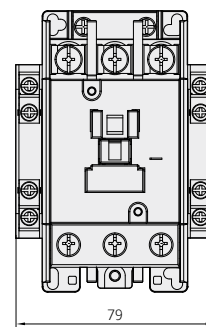
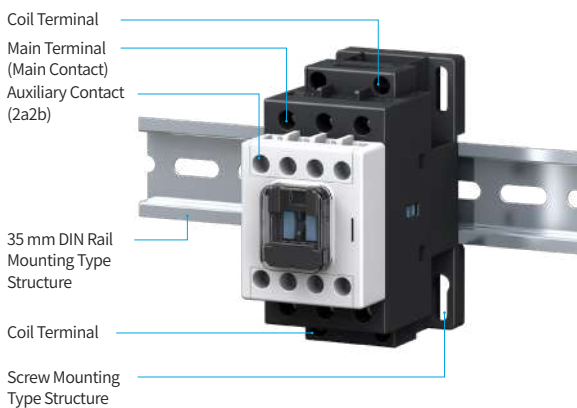


User Convenience

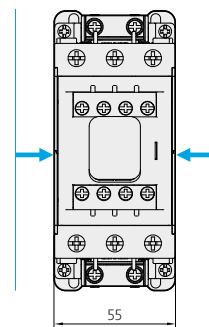
- Up/down allocation of coil terminal
- Built-in auxiliary contact
 - HGC9 ~ HGC40 : 1a1b or 2a2b
 - HGC50 ~ HGC100 : 2a2b

Product Design

- Reduced installation area with upper auxiliary contact structure
 - Space for 10 units of UMC65 (Based on 2a2b)
 - 14 units of HGC65 can be mounted



UMC65AF



HGC65AF

Technical Characteristics

- IEC60947-4-1 (2012) applied
- CB/CCC/Classification Certificate (7) acquired



Technical Data

External Structure (Magnetic Contactor)



- ① Control Power Terminal
- ② Main Terminal
- ③ Auxiliary Terminal
- ④ Product Name
- ⑤ Manufacturer
- ⑥ Safety Cover
- ⑦ Din-Rail Mounting Part
- ⑧ Upper Frame
- ⑨ Upper Cover
- ⑩ Nameplate
- ⑪ Screw Mounting Hole
- ⑫ Mounting Hole for Auxiliary Devices

Product Name — **HGC 40**
MAGNETIC CONTACTOR
교류전자개폐기 [접속기]

Rating Specification —

IEC/EN 60947-4-1		U _e (VAC)		kW		VAC		HP	
AC-3	220-240	11	200	10					
	380-440	18.5	230	10					
	500-550	22	460	30					
	660-690	22	575	30					

Certification Mark and Certification Number — **K60947-4-1, AC-3-0.50/60Hz**

Applied and Reference Standards —

주 회로		전압		전류	
분 조 회로	2a/2b	220V	40A		
		440V	40A		
		220V	6A		

UL Rating —

조작전압		제조년월		별도 표시	
VAC	110-120	1-PH	3-PH		
	220-240	3HP	-		
	440-480	7.5HP	15HP		

Country of Manufacture — **MADE IN KOREA**

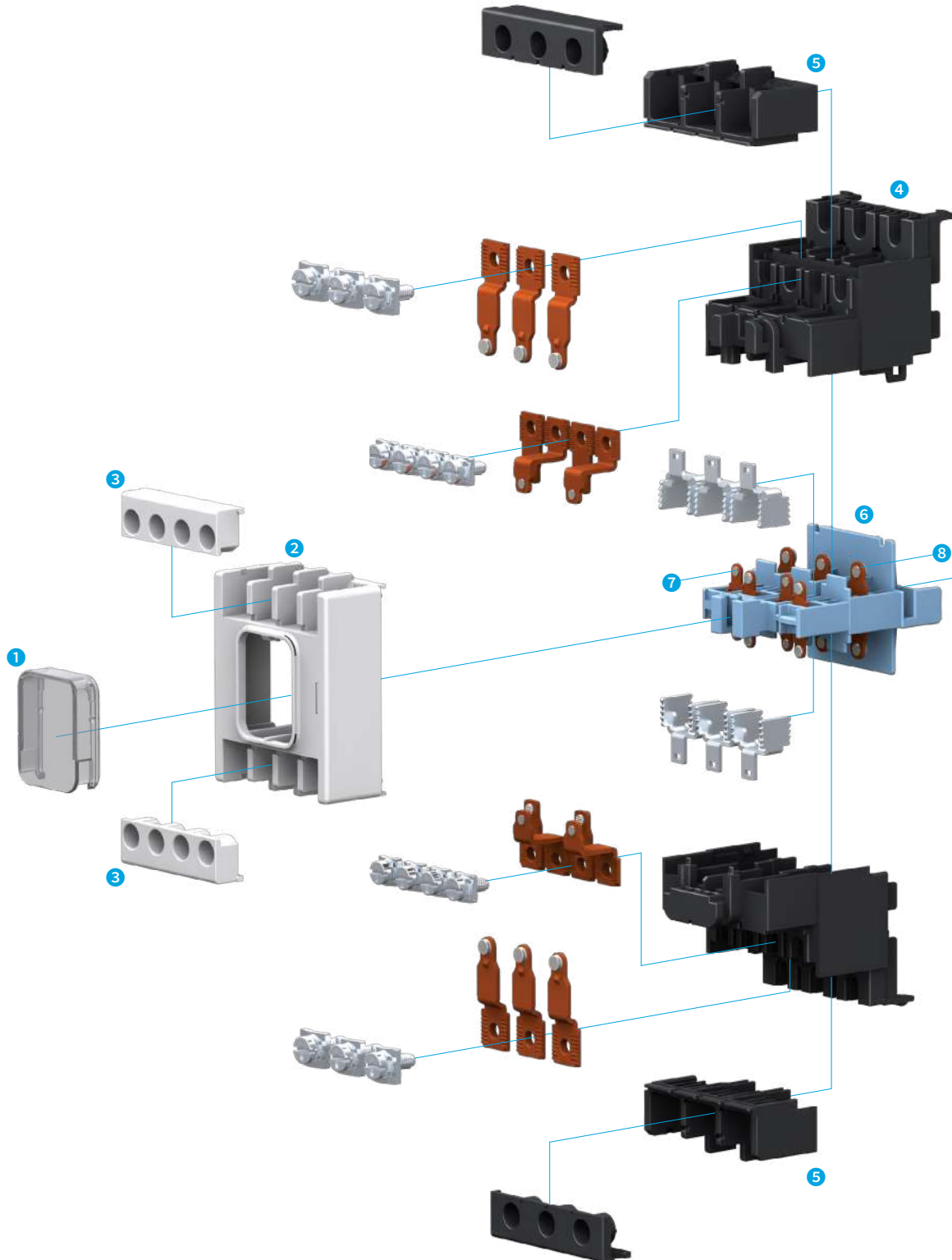
HE Logo — **HD HYUNDAI ELECTRIC**

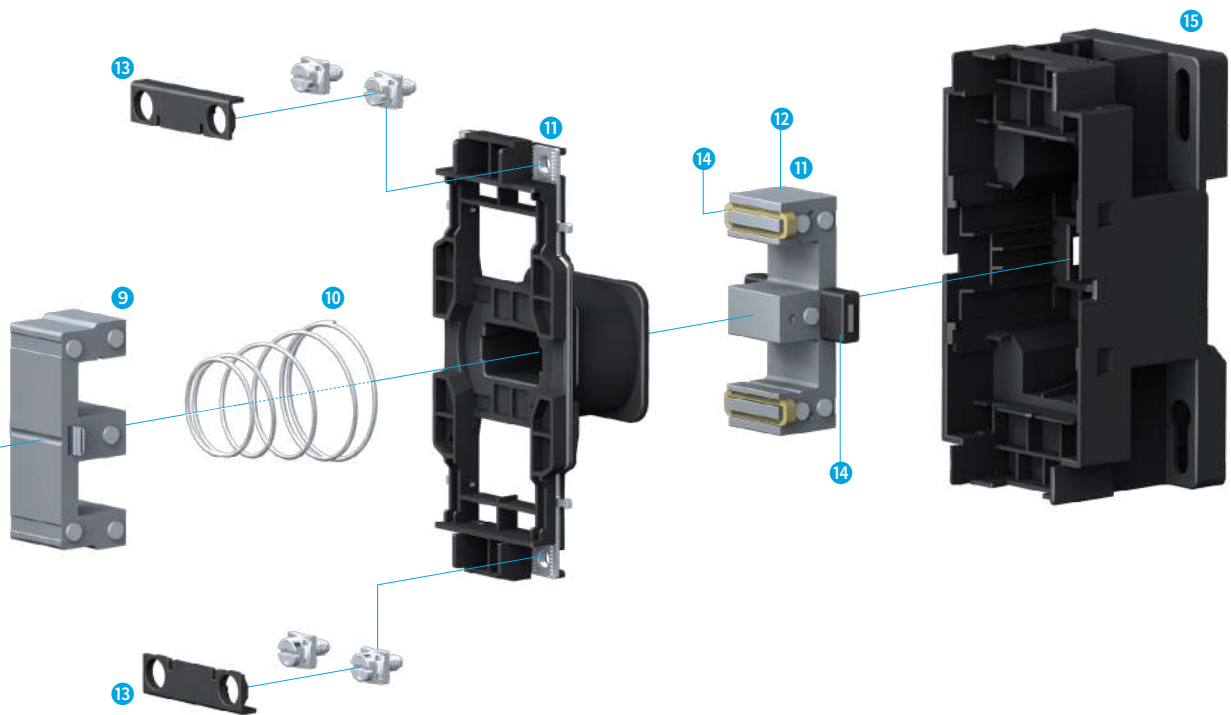
Manufacturer —

Technical Data

Internal Structure

Magnetic Contactor [9 ~ 100 AF]





- ❶ Safety Cover : Safety cover that prevents the contact bridge from being pressed arbitrarily
- ❷ Top Cover : Assembles arc chamber, auxiliary contact part is built in
- ❸ Aux. Protection Cover : Safety cover to protect the user from auxiliary contact parts
- ❹ Arc Chamber : Arc extinguishing device to prevent On/Off Arc
- ❺ Screw Terminal : Device for mounting terminals
- ❻ Contact Bridge : Assembled to a moving core and moving contact, it engages in on/off operation and the accessory mounting hole is built in
- ❼ Aux. Contact : Operational part of the auxiliary contact terminal
- ❽ Moving Contact : Operational part of the main contact terminal
- ❾ Moving Core : When power is supplied to the coil, the moving core slides into the fixed core and the magnetic contact is closed
- ❿ Return Spring : When the coil is de-energized, it separates the moving core from the fixed core
- ⓫ Coil Ass'y : The current flowing part to make the fixed core magnetized by supplying power
- ⓬ Fixed Core : The component that becomes magnetized when the power is supplied to the coil
- ⓭ Coil Protection Cover : Safety cover to protect the user from the current flowing part of the coil terminal
- ⓮ Rubber Damper : Device that absorbs the On/Off impact of the magnetic contact
- ⓯ Frame : Lower part of the magnetic contact built with the coil and fixed core

Technical Data

Magnetic Contactor [9 ~ 100 AF]

Enhanced Safety

Front Protection Cover

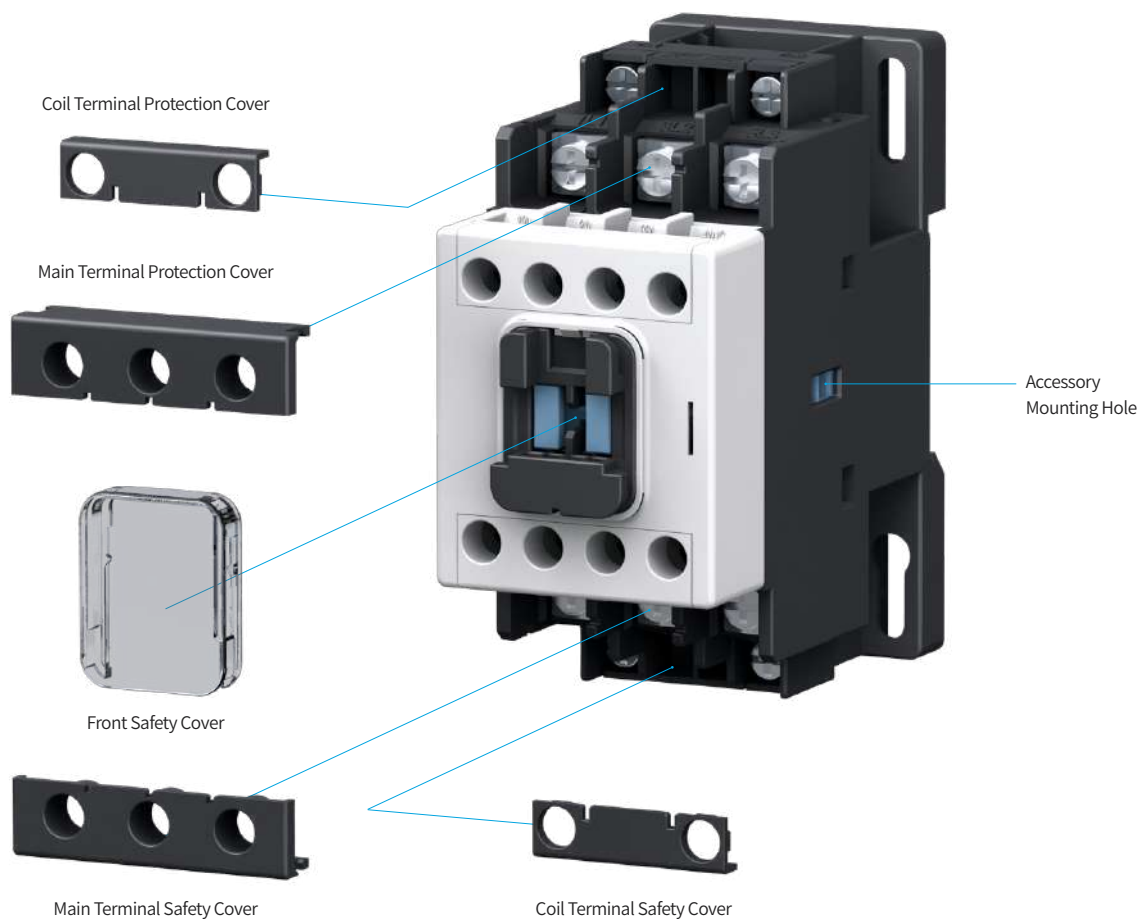
- Minimize the input of foreign substance
- Prevent malfunction caused by user's mistake

Enclosed Structure of Mounting Hole for Accessories

- Contact bridge creates sealed structure when MC is on/off

Removable Protection Cover

- For main terminal, auxiliary terminal, coil terminal
- Protection degree, IP20



Improved Customer Convenience

Built-In Upper Arrayed Auxiliary Contact

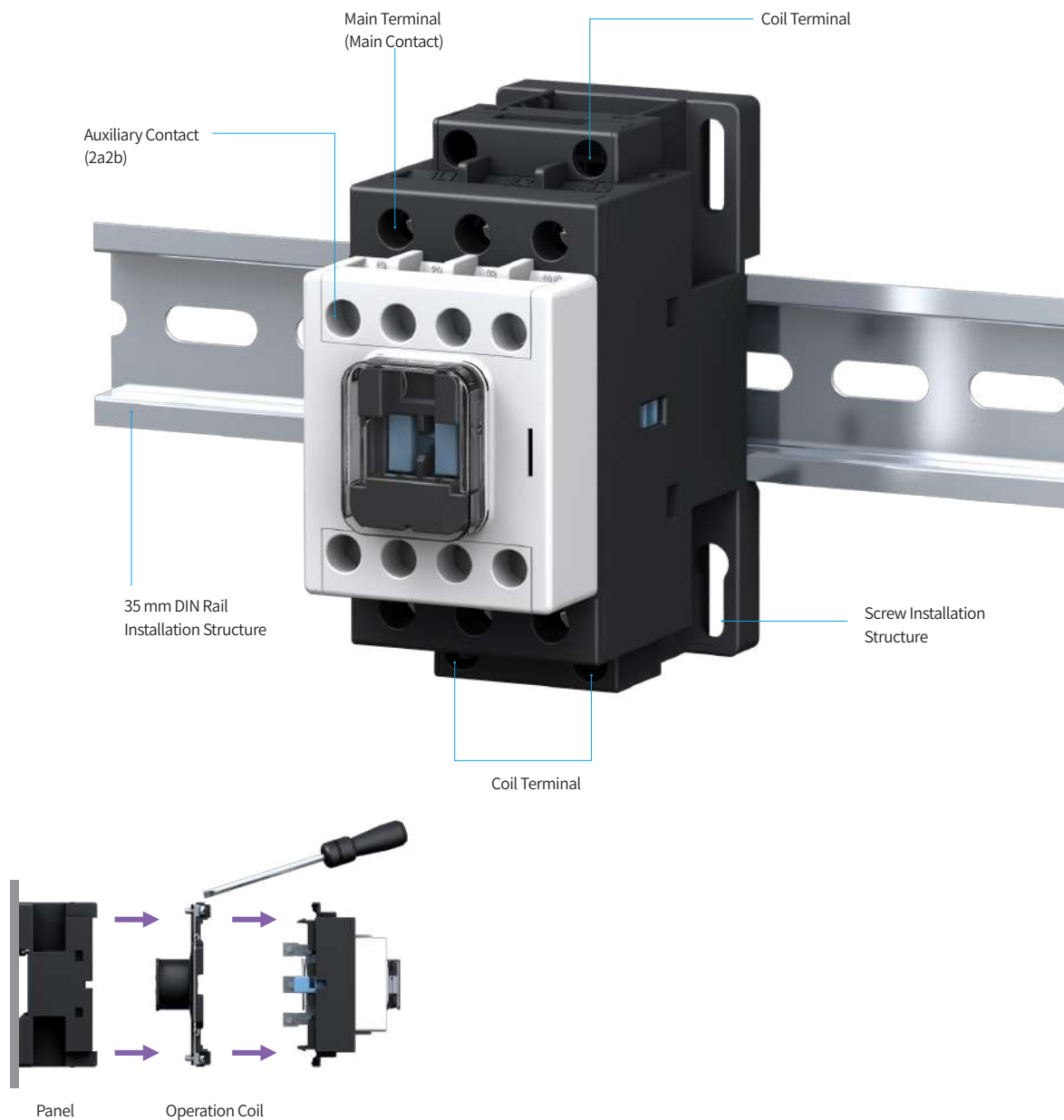
- 2a2b standard built-in type easy wiring control circuit

Easy Coil Replacement Structure

- Easy separation and replacement when it is attached to the panel

Various Mounting Methods

- Can be installed in Din Rail and Screw



Technical Data

Magnetic Contactor [115 ~ 800 AF]

Convenient Replacement of Operational Coil

- Easy separation and replacement of operational coil when it is attached to the panel
- The method of fixing the coil unit using a plastic case
 - Minimize the movement of the coil unit

Designed to Reduce Noise

- DC excitation method using magnetic circuit

Free Voltage of Coil Operation Power

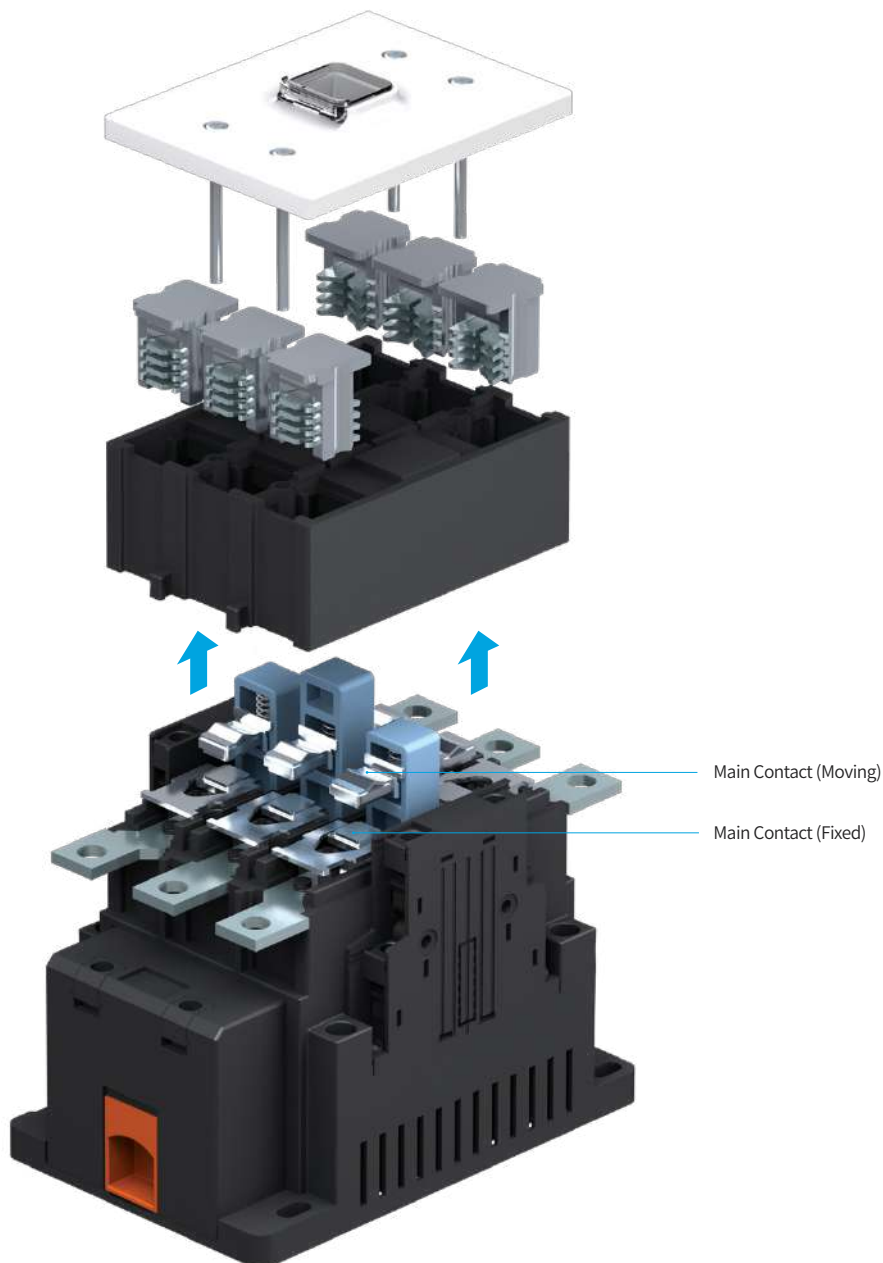
Nominal Voltage	Rated Voltage (AC/DC)
24 V	AC : 24 ~ 26 V, DC : 24 V
48 V	AC : 44 ~ 52 V, DC : 48 V
220 V	AC : 100 ~ 240 V, DC : 110 ~ 220 V
440 V	AC : 380 ~ 450 V

※ Based on HGC115 ~ 265



Easy Maintenance and Replacement for Main Contacts

- When the upper cover is removed, the main contact parts are revealed, enabling easy inspection and replacement of them from outside.



Technical Data

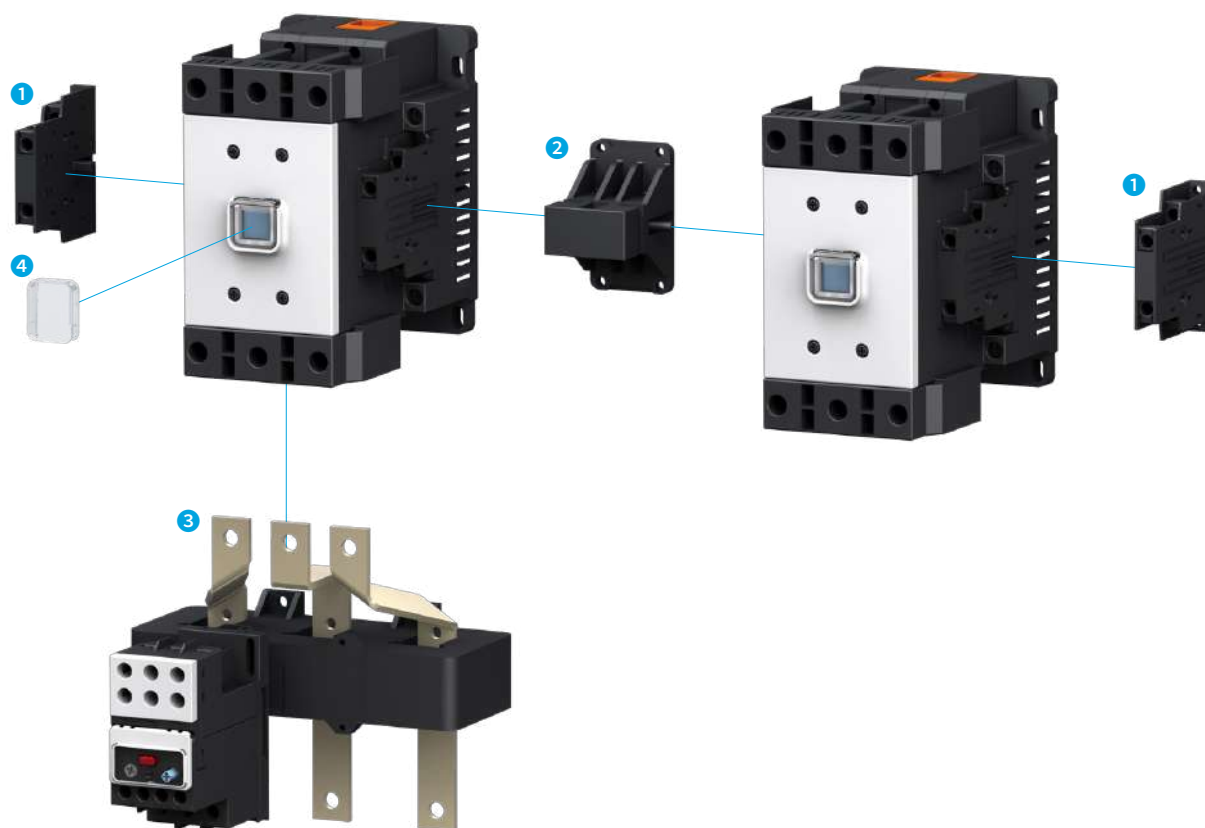
Accessories of Magnetic Contactor [9 ~ 100 AF]



9 ~ 100 AF Accessories

- | | |
|--|------------------------------------|
| ① Auxiliary Contact Block (Front) HGC TB | ⑥ Surge Absorber HGC RC/CD |
| ② Auxiliary Contact Block (Side) HGC SB | ⑦ Thermal Overload Relay HGT |
| ③ Mechanical Latching Block HGC LB 100 | ⑧ Installation Unit HGTMB |
| ④ Timer HGC ET | ⑨ Front Protection Cover HGCFC 100 |
| ⑤ Interlock Unit HGC IU | |

Accessories of Magnetic Contactor [115 ~ 800 AF]



115 ~ 800 AF Accessories

- ① Auxiliary Contact Block HGC SB
- ② Interlock Unit HGC IU
- ③ Thermal Overload Relay HGT
- ④ Front Protection Cover HGCFC

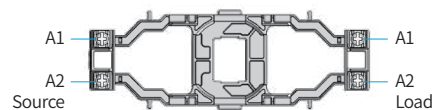
Technical Data

Operational Coil Ratings

HGC

Magnetic Contactor Model Name				HGC9	HGC12	HGC18	HGC25	HGC32	HGC40	HGC50	HGC65	HGC75	HGC85	HGC100								
Power Consumption																						
AC, DC	AC Operation (220 V/60 Hz)	Closed	VA	80	80	80	80	80	80	200	200	300	300	300								
		Maintained	VA/W	11/2.75	11/2.75	11/2.75	11/2.75	11/2.75	11/2.75	16/5.3	16/5.3	25/10	25/10	25/10								
	DC Operation	Closed	W	10	10	10	10	10	10	200	200	350	350	350								
		Maintained	W	10	10	10	10	10	10	5	5	8	8	8								
Both AC・DC	AC Operation (220 V/60 Hz)	Closed	VA	-	-	-	-	-	-	-	-	-	-	-								
		Maintained	VA/W	-	-	-	-	-	-	-	-	-	-	-								
	AC Operation (110 V/60 Hz)	Closed	VA	-	-	-	-	-	-	-	-	-	-	-								
		Maintained	VA/W	-	-	-	-	-	-	-	-	-	-	-								
	DC Operation	Closed	W	-	-	-	-	-	-	-	-	-	-	-								
		Maintained	W	-	-	-	-	-	-	-	-	-	-	-								
Operating Time																						
AC, DC	When Closed, Coil On →	AC	msec	12 ~ 30	12 ~ 30	12 ~ 30	12 ~ 30	12 ~ 30	12 ~ 30	9 ~ 18	9 ~ 18	15 ~ 30	15 ~ 30	15 ~ 30								
		DC		45 ~ 55	45 ~ 55	45 ~ 55	45 ~ 55	45 ~ 55	45 ~ 55	10 ~ 18	10 ~ 18	15 ~ 30	15 ~ 30	15 ~ 30								
Both DC・AC	Main Contact On	AC		-	-	-	-	-	-	-	-	-	-	-								
		DC		-	-	-	-	-	-	-	-	-	-	-								
AC, DC	When Blocked, Coil Off → Main Contact Off	AC		8 ~ 15	8 ~ 15	8 ~ 15	8 ~ 15	8 ~ 15	8 ~ 15	13 ~ 20	13 ~ 20	13 ~ 20	13 ~ 20	13 ~ 20								
		DC		6 ~ 18	6 ~ 18	6 ~ 18	6 ~ 18	6 ~ 18	6 ~ 18	13 ~ 20	13 ~ 20	13 ~ 20	13 ~ 20	13 ~ 20								
Both DC・AC		AC		-	-	-	-	-	-	-	-	-	-	-								
		DC		-	-	-	-	-	-	-	-	-	-	-								
Type of Operation Coil Voltage																						
1. Voltage : 85 ~ 110 % (Drop-out Voltage : 20 ~ 60%) 2. Exceeding the rated voltage causes damage in coil and electronic parts, ultimately reducing the product performance. 3. If operational voltage other than the rated voltage is required, it can be customized. Contact our company upon order.																						
				<table><tr><th>Item</th><th>Operational Voltage</th></tr><tr><td>AC 50 Hz</td><td>24, 48, 110, 120, 220, 240, 380, 440 V</td></tr><tr><td>AC 60 Hz</td><td>24, 48, 110, 120, 220, 240, 380, 440 V</td></tr><tr><td>DC</td><td>24, 48, 110, 125, 220 V</td></tr></table>											Item	Operational Voltage	AC 50 Hz	24, 48, 110, 120, 220, 240, 380, 440 V	AC 60 Hz	24, 48, 110, 120, 220, 240, 380, 440 V	DC	24, 48, 110, 125, 220 V
Item	Operational Voltage																					
AC 50 Hz	24, 48, 110, 120, 220, 240, 380, 440 V																					
AC 60 Hz	24, 48, 110, 120, 220, 240, 380, 440 V																					
DC	24, 48, 110, 125, 220 V																					

※ The operating time of the product for both DC/AC is the average data based on AC 220 V 60 Hz, DC 110 V. As for HGC9-100, the A1 and A2 terminal at the live and load side is not separately respectively and as it is common (connected), ensure that short-circuit does not occur during wiring.



Auxiliary Contact Ratings



IEC 60947

Rated Insulation Voltage (Ui)	AC 750 V							
Rated Operational Current (Ith)	16 A							
Minimum load	10 mA at 24 V DC							
Rated Current	AC12 (Resistive Load)		AC15 (Coil Load)		DC12 (Resistive Load)		DC13 (Coil Load)	
	110 V	10 A	110 V	6 A	24 V	4 A	24 V	4 A
	220 V	8 A	220 V	4 A	48 V	2.5 A	48 V	2.5 A
	440 V	6 A	440 V	3 A	125 V	1.1 A	125 V	1.1 A
	690 V	2 A	690 V	2 A	220 V	0.3 A	250 V	0.3 A

HGC115	HGC130	HGC150	HGC185	HGC225	HGC265	HGC300	HGC400	HGC500	HGC630	HGC800
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
530	530	530	360	360	360	390	390	390	1,700	1,700
14/7.2	14/7.2	14/7.2	15/9.4	15/9.4	15/9.4	18/11.2	18/11.2	18/11.2	54/33.5	54/33.5
240	240	240	250	250	250	250	250	250	850	850
3.3/2.1	3.3/2.1	3.3/2.1	6.4/4.4	6.4/4.4	6.4/4.4	6.4/4.4	6.4/4.4	6.4/4.4	10.5/8	10.5/8
193	193	193	420	420	420	420	420	420	850	850
2.6	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4	9.5	9.5
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	40 ~ 80	45 ~ 150	45 ~ 150
70 ~ 80	70 ~ 80	70 ~ 80	35 ~ 45	35 ~ 70	35 ~ 70	35 ~ 70	35 ~ 70	35 ~ 70	45 ~ 150	45 ~ 150
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
18 ~ 25	18 ~ 25	18 ~ 25	40 ~ 50	40 ~ 50	40 ~ 50	35 ~ 50	35 ~ 50	35 ~ 50	45 ~ 150	45 ~ 150
15 ~ 20	15 ~ 20	15 ~ 20	35 ~ 45	35 ~ 45	35 ~ 45	35 ~ 45	35 ~ 45	35 ~ 45	45 ~ 150	45 ~ 150

AC/DC

Nominal Voltage	AC	DC
220 V	100 ~ 240 V	110 ~ 220 V
440 V	380 ~ 450 V	-

AC/DC

Nominal Voltage	AC	DC
110 V	100 ~ 127 V	100 ~ 110 V
220 V	200 ~ 240 V	200 ~ 220 V
440 V	380 ~ 450 V	-

UL and CSA



Current	16 A			
Minimum load	10 mA at 24 V DC			
Rated Current	AC		DC	
	120 V	6 A	125 V	1.1 A
	240 V	3 A	250 V	0.3 A
	480 V	1.5 A	440 V	0.2 A
	600 V	1.2 A	600 V	0.2 A

※ Contact Rating Code : A600 ~ P150

Ratings and Order Code

Magnetic Contactor : HGC 9 ~ 18 A

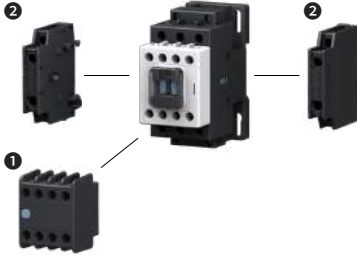
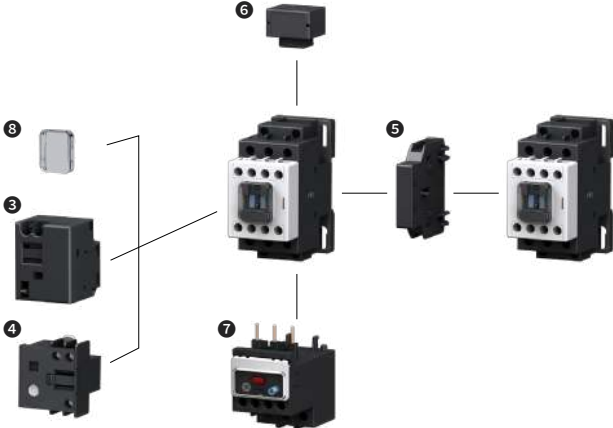
Rating			HGC			
Model Name			HGC9	HGC12	HGC18	
IEC 60947-4						
Rated Insulation Voltage [Ui]		V	800	800	800	
Rated Operational Voltage [Ue]		V	690	690	690	
Rated Impulse Withstand Voltage [Uimp]		kV	6	6	6	
Rated Thermal Current Ith (AC1)		A	25	25	40	
AC3	200 ~ 240 V		2.5/9	3.5/12	4.5/18	
	380 ~ 440 V		4/9	5.5/12	7.5/18	
	500 ~ 550 V		4/7	7.5/12	8.5/13	
	660 ~ 690 V		4/6	7.5/9	7.5/9	
	1,000 V		-	-	-	
	Lifespan	Electrical	10,000 times	250	250	250
		Mechanical	1,500	1,500	1,500	
AC4	200 ~ 240 V		kW/A	1.5/8	2.2/11	3.7/16
	380 ~ 440 V			2.2/6	4/9	4/11
	Electrical Lifespan		10,000 times	3	3	3
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	1,000	1,000	1,000
	50 % Load (DC)			2,000	2,000	2,000
	20 % Load (DC)			3,600	3,600	3,600
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	300	300	300
	50 % Load			600	600	600
Making Capacity	220 V		A	110	130	180
	440 V			90	120	180
Breaking Capacity	220 V		A	88	104	144
	440 V			72	96	144
Mounting Method			Screw & Rail Mounting			
Auxiliary Contact						
Standard	AC		1NO1NC or 2NO2NC			
	DC		1NO1NC or 2NO2NC			
	AC/DC		-			
Additional	AC		2NO2NC			
	DC		2NO2NC			
	AC/DC		-			
Dimensions						
AC	W×H×D	mm	45×94.2×91.1			
DC			45×94.2×124			
AC/DC			-			
Weight						
AC	kg		0.4			
DC			0.6			
AC/DC			-			
Contact Arrangement						
Main	Main Contact	3a				
	Auxiliary Contact	2a2b				
Main + Auxiliary Block Added (2a2b)	Main Contact	3a				
	Auxiliary Contact	4a4b				

※ For auxiliary contact usage, refer to Page 62 ~ 63. When using auxiliary contact, Up to 6a can be made for A contact and up to 4b for B contact.

When using 4a4b condition by using side auxiliary block, upper auxiliary block cannot be used. In the main 2a2b, upper auxiliary block can be used.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories		
			
❶ Auxiliary Contact Block (Front Mounting) HGC TB - 62 page ❷ Auxiliary Contact Block (Side Mounting) HGC SB 40 - 62 page	❸ Mechanical Latching Block HGC LB 100 - 65 page ❹ Timer HGC ET - 67 page	❺ Interlock Unit HGC IU 40 - 64 page ❻ Surge Absorber HGC RC/CD 40 - 66 page	❼ Thermal Overload Relay HGT 18 - 52 page ❽ Front Safety Cover HGCFC 100 - 69 page

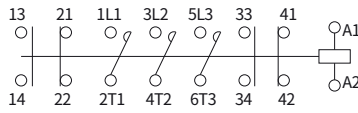
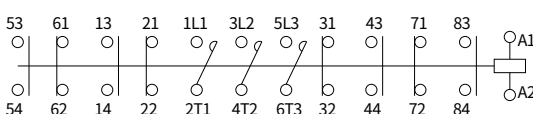
Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Operational Voltage (V)		HGC9	HGC12	HGC18
AC (60 Hz)	24	HGC9 22NS A024	HGC12 22NS A024	HGC18 22NS A024
	48	HGC9 22NS A048	HGC12 22NS A048	HGC18 22NS A048
	110	HGC9 22NS A110	HGC12 22NS A110	HGC18 22NS A110
	120	HGC9 22NS A120	HGC12 22NS A120	HGC18 22NS A120
	220	HGC9 22NS A220	HGC12 22NS A220	HGC18 22NS A220
	240	HGC9 22NS A240	HGC12 22NS A240	HGC18 22NS A240
	380	HGC9 22NS A380	HGC12 22NS A380	HGC18 22NS A380
	440	HGC9 22NS A440	HGC12 22NS A440	HGC18 22NS A440
AC (50 Hz)	24	HGC9 22NS X024	HGC12 22NS X024	HGC18 22NS X024
	48	HGC9 22NS X048	HGC12 22NS X048	HGC18 22NS X048
	110	HGC9 22NS X110	HGC12 22NS X110	HGC18 22NS X110
	120	HGC9 22NS X120	HGC12 22NS X120	HGC18 22NS X120
	220	HGC9 22NS X220	HGC12 22NS X220	HGC18 22NS X220
	240	HGC9 22NS X240	HGC12 22NS X240	HGC18 22NS X240
	380	HGC9 22NS X380	HGC12 22NS X380	HGC18 22NS X380
	440	HGC9 22NS X440	HGC12 22NS X440	HGC18 22NS X440
DC	24	HGC9 22NS D024	HGC12 22NS D024	HGC18 22NS D024
	48	HGC9 22NS D048	HGC12 22NS D048	HGC18 22NS D048
	110	HGC9 22NS D110	HGC12 22NS D110	HGC18 22NS D110
	125	HGC9 22NS D125	HGC12 22NS D125	HGC18 22NS D125
	220	HGC9 22NS D220	HGC12 22NS D220	HGC18 22NS D220

Ratings and Order Code

Magnetic Contactor : HGC 25 ~ 40 A

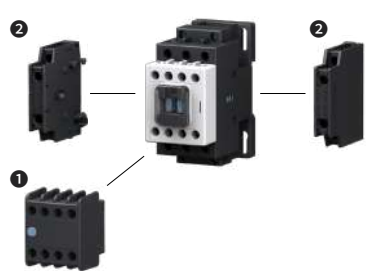
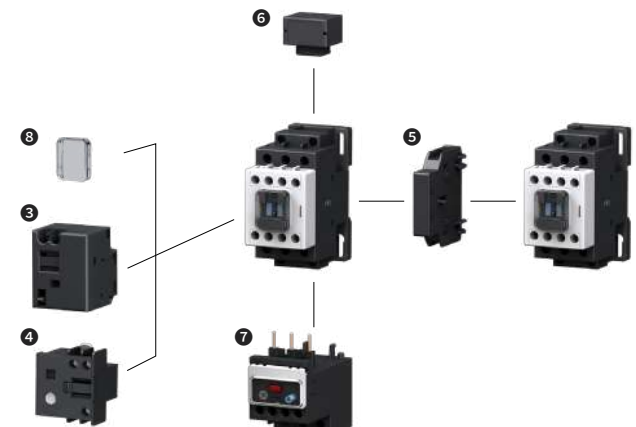
Rating			HGC			
Model Name			HGC25	HGC32	HGC40	
IEC 60947						
Rated Insulation Voltage [Ui]		V	800	800	800	
Rated Operational Voltage [Ue]		V	690	690	690	
Rated Impulse Withstand Voltage [Uimp]		kV	6	6	6	
Rated Thermal Current Ith (AC1)		A	45	55	60	
AC3	200 ~ 240 V		5.5/25	7.5/32	11/40	
	380 ~ 440 V		11/25	15/32	18.5/40	
	500 ~ 550 V		15/22	18.5/28	22/32	
	660 ~ 690 V		15/17	18.5/20	22/23	
	1,000 V		-	-	-	
	Lifespan	Electrical	10,000 times	250	200	200
	Mechanical	1,500		1,500	1,500	
AC4	200 ~ 240 V		kW/A	3.7/18	4.5/22	5.5/25
	380 ~ 440 V			5.5/13	7.5/17	11/24
	Electrical Lifespan		10,000 times	3	3	3
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	1,000	1,000	1,000
	50 % Load (DC)			2,000	2,000	2,000
	20 % Load (DC)			3,600	3,600	3,600
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	300	300	250
	50 % Load			600	600	500
Making Capacity	220 V		A	250	320	400
	440 V			250	320	400
Breaking Capacity	220 V		A	200	256	320
	440 V			200	256	320
Mounting Method			Screw & Rail Mounting			
Auxiliary Contact						
Standard	AC		1NO1NC or 2NO2NC			
	DC		1NO1NC or 2NO2NC			
	AC/DC		-			
Additional	AC		2NO2NC			
	DC		2NO2NC			
	AC/DC		-			
Dimensions						
AC	W×H×D	mm	45×99.6×96.6			
DC			45×99.6×129.5			
AC/DC			-			
Weight						
AC	kg		0.5			
DC			0.65			
AC/DC			-			
Contact Arrangement						
Main	Main Contact	3a				
	Auxiliary Contact	2a2b				
Main + Auxiliary Block Added (2a2b)	Main Contact	3a				
	Auxiliary Contact	4a4b				

※ For auxiliary contact usage, refer to Page 62 ~ 63. When using auxiliary contact, Up to 6a can be made for A contact and up to 4b for B contact.

When using 4a4b condition by using side auxiliary block, upper auxiliary block cannot be used. In the main 2a2b, upper auxiliary block can be used.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories
	
❶ Auxiliary Contact Block (Front Mounting) HGC TB - 62 page ❷ Auxiliary Contact Block (Side Mounting) HGC SB 40 - 62 page	❸ Mechanical Latching Block HGC LB 100 - 65 page ❹ Timer HGC ET - 67 page ❺ Interlock Unit HGC IU 40 - 64 page ❻ Surge Absorber HGC RC/CD 40 - 66 page ❼ Thermal Overload Relay HGT 40 - 54 page ❽ Front Safety Cover HGCFC 100 - 69 page

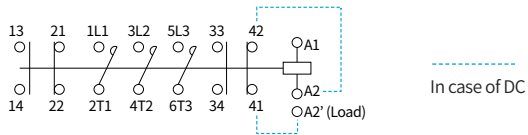
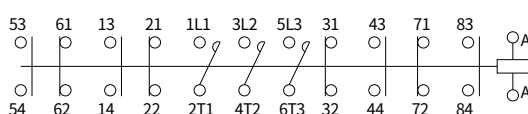
Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Operational Voltage (V)		HGC25	HGC32	HGC40
AC (60 Hz)	24	HGC25 22NS A024	HGC32 22NS A024	HGC40 22NS A024
	48	HGC25 22NS A048	HGC32 22NS A048	HGC40 22NS A048
	110	HGC25 22NS A110	HGC32 22NS A110	HGC40 22NS A110
	120	HGC25 22NS A120	HGC32 22NS A120	HGC40 22NS A120
	220	HGC25 22NS A220	HGC32 22NS A220	HGC40 22NS A220
	240	HGC25 22NS A240	HGC32 22NS A240	HGC40 22NS A240
	380	HGC25 22NS A380	HGC32 22NS A380	HGC40 22NS A380
	440	HGC25 22NS A440	HGC32 22NS A440	HGC40 22NS A440
AC (50 Hz)	24	HGC25 22NS X024	HGC32 22NS X024	HGC40 22NS X024
	48	HGC25 22NS X048	HGC32 22NS X048	HGC40 22NS X048
	110	HGC25 22NS X110	HGC32 22NS X110	HGC40 22NS X110
	120	HGC25 22NS X120	HGC32 22NS X120	HGC40 22NS X120
	220	HGC25 22NS X220	HGC32 22NS X220	HGC40 22NS X220
	240	HGC25 22NS X240	HGC32 22NS X240	HGC40 22NS X240
	380	HGC25 22NS X380	HGC32 22NS X380	HGC40 22NS X380
	440	HGC25 22NS X440	HGC32 22NS X440	HGC40 22NS X440
DC	24	HGC25 22NS D024	HGC32 22NS D024	HGC40 22NS D024
	48	HGC25 22NS D048	HGC32 22NS D048	HGC40 22NS D048
	110	HGC25 22NS D110	HGC32 22NS D110	HGC40 22NS D110
	125	HGC25 22NS D125	HGC32 22NS D125	HGC40 22NS D125
	220	HGC25 22NS D220	HGC32 22NS D220	HGC40 22NS D220

Ratings and Order Code

Magnetic Contactor : HGC 50 ~ 65 A

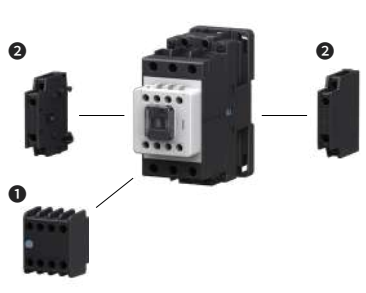
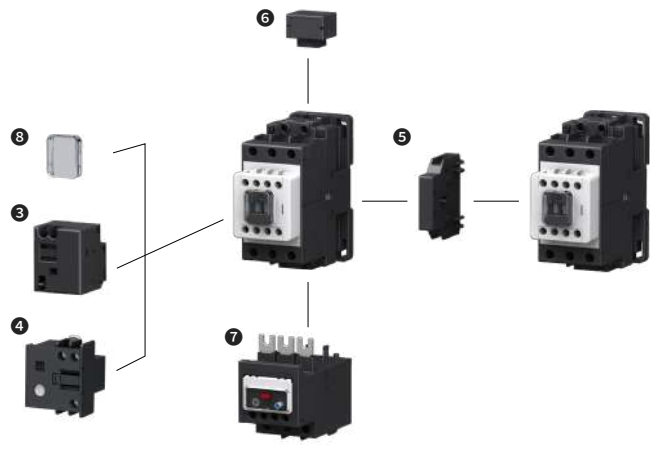
Rating			HGC	
Model Name			HGC50	HGC65
IEC 60947				
Rated Insulation Voltage [Ui]		V	1,000	1,000
Rated Operational Voltage [Ue]		V	690	690
Rated Impulse Withstand Voltage [Uimp]		kV	8	8
Rated Thermal Current Ith (AC1)		A	70	85
AC3	200 ~ 240 V		15/50	18.5/65
	380 ~ 440 V		22/50	30/65
	500 ~ 550 V		30/43	33/60
	660 ~ 690 V		30/28	33/35
	1,000 V		-	-
	Lifespan	Electrical Mechanical	10,000 times	200 1,500
AC4	200 ~ 240 V		7.5/35	11/50
	380 ~ 440 V		15/32	22/47
	Electrical Lifespan		10,000 times	3
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		750	750
	50 % Load (DC)		Frequency 1,500 (900)	1,500 (900)
	20 % Load (DC)		3,000 (1,200)	3,000 (1,200)
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency 250	250
	50 % Load		500	500
Making Capacity	220 V		A 500	650
	440 V		500	650
Breaking Capacity	220 V		A 400	520
	440 V		400	520
Mounting Method			Screw & Rail Mounting	
Auxiliary Contact				
Standard	AC		2NO2NC	
	DC		2NO1NC	
	AC/DC		-	
Additional	AC		2NO2NC	
	DC		1NO1NC	
	AC/DC		-	
Dimensions				
AC	W×H×D	mm	55×127.6×129.1	
DC			55×127.6×129.1	
AC/DC			-	
Weight				
AC	kg	0.8		
DC		0.8		
AC/DC		-		
Contact Arrangement				
Main	Main Contact	3a		
	Auxiliary Contact	2a2b		
Main + Auxiliary Block Added (2a2b)	Main Contact	3a		
	Auxiliary Contact	4a4b		

※ For auxiliary contact usage, refer to Page 62 ~ 63. When using auxiliary contact, Up to 6a can be made for A contact and up to 4b for B contact.

When using 4a4b condition by using side auxiliary block, upper auxiliary block cannot be used. In the main 2a2b, upper auxiliary block can be used.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories
	
❶ Auxiliary Contact Block (Front Mounting) HGC TB - 62 page ❷ Auxiliary Contact Block (Side Mounting) HGC SB 100 - 62 page	❸ Mechanical Latching Block HGC LB 100 - 65 page ❹ Timer HGC ET - 67 page ❺ Interlock Unit HGC IU 100 - 64 page ❻ Surge Absorber HGC RC/CD100 - 66 page ❼ Thermal Overload Relay HGT 65 - 54 page ❽ Front Safety Cover HGCFC 100 - 69 page

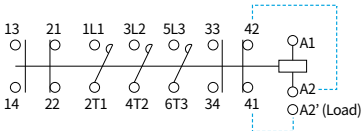
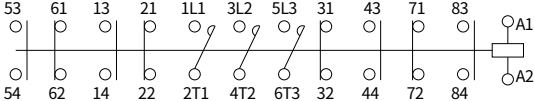
Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : AC based on 2NO2NC, DC based on 2NO1NC

Operational Voltage (V)		HGC50	HGC65
AC (60 Hz)	24	HGC50 22NS A024	HGC65 22NS A024
	48	HGC50 22NS A048	HGC65 22NS A048
	110	HGC50 22NS A110	HGC65 22NS A110
	120	HGC50 22NS A120	HGC65 22NS A120
	220	HGC50 22NS A220	HGC65 22NS A220
	240	HGC50 22NS A240	HGC65 22NS A240
	380	HGC50 22NS A380	HGC65 22NS A380
	440	HGC50 22NS A440	HGC65 22NS A440
AC (50 Hz)	24	HGC50 22NS X024	HGC65 22NS X024
	48	HGC50 22NS X048	HGC65 22NS X048
	110	HGC50 22NS X110	HGC65 22NS X110
	120	HGC50 22NS X120	HGC65 22NS X120
	220	HGC50 22NS X220	HGC65 22NS X220
	240	HGC50 22NS X240	HGC65 22NS X240
	380	HGC50 22NS X380	HGC65 22NS X380
	440	HGC50 22NS X440	HGC65 22NS X440
DC	24	HGC50 21NS D024	HGC65 21NS D024
	48	HGC50 21NS D048	HGC65 21NS D048
	110	HGC50 21NS D110	HGC65 21NS D110
	125	HGC50 21NS D125	HGC65 21NS D125
	220	HGC50 21NS D220	HGC65 21NS D220

Ratings and Order Code

Magnetic Contactor : HGC 75 ~ 100 A

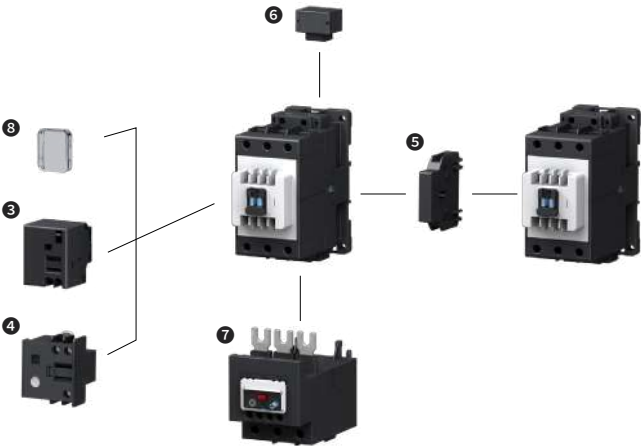
Rating			HGC			
Model Name			HGC75	HGC85	HGC100	
IEC 60947						
Rated Insulation Voltage [Ui]		V	1,000	1,000	1,000	
Rated Operational Voltage [Ue]		V	690	690	690	
Rated Impulse Withstand Voltage [Uimp]		kV	8	8	8	
Rated Thermal Current I _{th} (AC1)		A	115	125	145	
AC3	200 ~ 240 V		kW/A	22/75	25/85	30/100
	380 ~ 440 V			37/75	45/85	55/100
	500 ~ 550 V			37/64	50/75	55/85
	660 ~ 690 V			37/42	45/45	50/65
	1,000 V			-	-	-
	Lifespan		Electrical Mechanical	10,000 times	200	200
		1,000			1,000	1,000
AC4	200 ~ 240 V		kW/A	13/55	15/65	17/72
	380 ~ 440 V			25/52	30/62	33/68
	Electrical Lifespan		10,000 times	3	3	3
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	450	450	450
	50 % Load (DC)			900	900	900
	20 % Load (DC)			1,800	1,800	1,800
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	200	200	200
	50 % Load			400	400	400
Making Capacity	220 V		A	750	850	1,000
	440 V			750	850	1,000
Breaking Capacity	220 V		A	600	680	800
	440 V			600	680	800
Mounting Method			Screw & Rail Mounting			
Auxiliary Contact						
Standard	AC		2NO2NC			
	DC		2NO1NC			
	AC/DC		-			
Additional	AC		2NO2NC			
	DC		1NO1NC			
	AC/DC		-			
Dimensions						
AC	W×H×D	mm	70×146×153			
DC			70×146×153			
AC/DC			-			
Weight						
AC	kg		1.3			
DC			1.3			
AC/DC			-			
Contact Arrangement						
Main	Main Contact	3a				
	Auxiliary Contact	2a2b				
Main + Auxiliary Block Added (2a2b)	Main Contact	3a				
	Auxiliary Contact	4a4b				

※ For auxiliary contact usage, refer to Page 62 ~ 63. When using auxiliary contact, Up to 6a can be made for A contact and up to 4b for B contact.

When using 4a4b condition by using side auxiliary block, upper auxiliary block cannot be used. In the main 2a2b, upper auxiliary block can be used.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories
	
❶ Auxiliary Contact Block (Front Mounting) HGC TB - 62 page ❷ Auxiliary Contact Block (Side Mounting) HGC SB 100 - 62 page	❸ Mechanical Latching Block HGC LB 100 - 65 page ❹ Timer HGC ET - 67 page ❺ Interlock Unit HGC IU 100 - 64 page ❻ Surge Absorber HGC RC/CD100 - 66 page ❼ Thermal Overload Relay HGT 65 - 54 page ❽ Front Safety Cover HGCFC 100 - 69 page

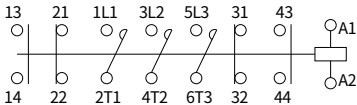
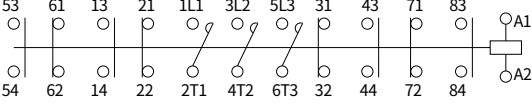
Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : AC based on 2NO2NC, DC based on 2NO1NC

Operational Voltage(V)		HGC75	HGC85	HG100
AC (60 Hz)	24	HGC75 22NS A024	HGC85 22NS A024	HGC100 22NS A024
	48	HGC75 22NS A048	HGC85 22NS A048	HGC100 22NS A048
	110	HGC75 22NS A110	HGC85 22NS A110	HGC100 22NS A110
	120	HGC75 22NS A120	HGC85 22NS A120	HGC100 22NS A120
	220	HGC75 22NS A220	HGC85 22NS A220	HGC100 22NS A220
	240	HGC75 22NS A240	HGC85 22NS A240	HGC100 22NS A240
	380	HGC75 22NS A380	HGC85 22NS A380	HGC100 22NS A380
	440	HGC75 22NS A440	HGC85 22NS A440	HGC100 22NS A440
AC (50 Hz)	24	HGC75 22NS X024	HGC85 22NS X024	HGC100 22NS X024
	48	HGC75 22NS X048	HGC85 22NS X048	HGC100 22NS X048
	110	HGC75 22NS X110	HGC85 22NS X110	HGC100 22NS X110
	120	HGC75 22NS X120	HGC85 22NS X120	HGC100 22NS X120
	220	HGC75 22NS X220	HGC85 22NS X220	HGC100 22NS X220
	240	HGC75 22NS X240	HGC85 22NS X240	HGC100 22NS X240
	380	HGC75 22NS X380	HGC85 22NS X380	HGC100 22NS X380
	440	HGC75 22NS X440	HGC85 22NS X440	HGC100 22NS X440
DC	24	HGC75 21NS D024	HGC85 21NS D024	HGC100 21NS D024
	48	HGC75 21NS D048	HGC85 21NS D048	HGC100 21NS D048
	110	HGC75 21NS D110	HGC85 21NS D110	HGC100 21NS D110
	125	HGC75 21NS D125	HGC85 21NS D125	HGC100 21NS D125
	220	HGC75 21NS D220	HGC85 21NS D220	HGC100 21NS D220

Ratings and Order Code

Magnetic Contactor : HGC 115 ~ 150 A

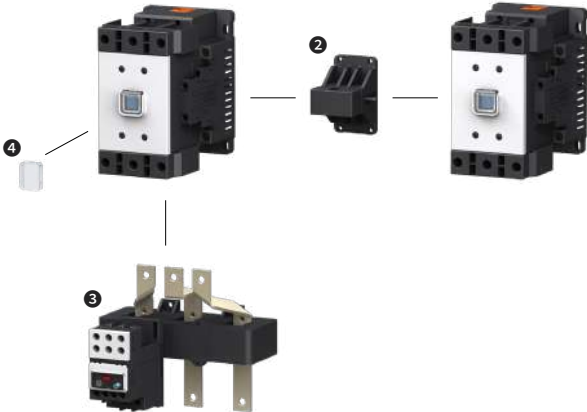
Rating				HGC						
Model Name				HGC115		HGC130		HGC150		
IEC 60947-4										
Rated Insulation Voltage [Ui]				V	1,000		1,000		1,000	
Rated Operational Voltage [Ue]				V	1,000		1,000		1,000	
Rated Impulse Withstand Voltage [Uimp]				kV	8		8		8	
Rated Thermal Current Ith (AC1)				A	160		180		210	
AC3	200 ~ 240 V 380 ~ 440 V 500 ~ 550 V 660 ~ 690 V 1,000 V		kW/A	10,000 times	37/115		40/130		45/150	
					60/115		65/130		75/150	
					59/100		70/120		90/140	
					55/65		75/82		90/120	
					65/50		75/54		90/66	
	Lifespan	Electrical Mechanical	10,000 times	100 500	100 500		100 500			
AC4	200 ~ 240 V		kW/A	19/80		22/93		30/125		
	380 ~ 440 V			37/75		45/90		55/110		
	Electrical Lifespan		10,000 times	3		3		3		
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	450		450		450		
	50 % Load (DC)			900		900		900		
	20 % Load (DC)			1,800		1,800		1,800		
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	200		200		200		
	50 % Load			400		400		400		
Making Capacity	220 V		A	1,150		1,300		1,500		
	440 V			1,150		1,300		1,500		
Breaking Capacity	220 V		A	920		1,040		1,200		
	440 V			920		1,040		1,200		
Mounting Method				Screw Mounting						
Auxiliary Contact										
Standard		AC/DC		2NO2NC						
Additional ¹⁾		AC/DC		2NO2NC						
Dimensions		AC/DC	W×H×D	mm	103×155×145.1					
Weight		AC/DC		kg	2.7					
Contact Arrangement										
Main	Main Contact		3a							
	Auxiliary Contact		2a2b							
Main + Auxiliary Block Added (2a2b)	Main Contact		3a							
	Auxiliary Contact		4a4b							

¹⁾ Maximum number of auxiliary contact that can be mounted horizontally on the side.

※ For auxiliary contact usage, refer to Page 62 ~ 63.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories		
			
1 Auxiliary Contact Block (Side Mounting) HGC SB 800 - 62 page	2 Interlock Unit HGC IU 265 - 64 page	3 Thermal Overload Relay HGT 150 - 56 page	4 Front Safety Cover HGCFC 150 - 69 page

Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Nominal Voltage (V)	Operational Voltage (V)	HGC115	HGC130	HGC150
220	AC 100 ~ 240 DC 110 ~ 220	HGC115 22NS F220	HGC130 22NS F220	HGC150 22NS F220
	AC 220 ~ 240(50Hz) AC 220 ~ 230(60Hz)	HGC115 22NS Y220	HGC130 22NS Y220	HGC150 22NS Y220
440	AC 380 ~ 450	HGC115 22NS F440	HGC130 22NS F440	HGC150 22NS F440

Ratings and Order Code

Magnetic Contactor : HGC 185 ~ 265 A

Rating				HGC						
Model Name				HGC185		HGC225		HGC265		
IEC 60947										
Rated Insulation Voltage [Ui]				V	1,000		1,000		1,000	
Rated Operational Voltage [Ue]				V	1,000		1,000		1,000	
Rated Impulse Withstand Voltage [Uimp]				kV	8		8		8	
Rated Thermal Current Ith (AC1)				A	275		315		350	
AC3	200 ~ 240 V 380 ~ 440 V 500 ~ 550 V 660 ~ 690 V 1,000 V			kW/A	55/185		75/225		80/265	
					90/185		132/225		147/265	
					110/180		132/200		150/225	
					110/120		132/150		160/173	
					110/78		132/96		160/113	
	Lifespan	Electrical Mechanical	10,000 times	100 500	100 500		100 500			
AC4	200 ~ 240 V		kW/A	37/150		45/185		50/200		
	380 ~ 440 V			75/150		90/185		102/200		
	Electrical Lifespan		10,000 times	3		3		3		
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	300		300		300		
	50 % Load (DC)			600		600		600		
	20 % Load (DC)			1,200		1,200		1,200		
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	200		200		200		
	50 % Load			400		400		400		
Making Capacity	220 V		A	1,850		2,250		2,650		
	440 V			1,850		2,250		2,650		
Breaking Capacity	220 V		A	1,480		1,800		2,120		
	440 V			1,480		1,800		2,120		
Mounting Method				Screw Mounting						
Auxiliary Contact										
Standard		AC/DC		2NO2NC						
Additional ¹⁾		AC/DC		2NO2NC						
Dimensions		AC/DC	W×H×D	mm	138×204×174.2					
Weight		AC/DC		kg	4.8					
Contact Arrangement										
Main	Main Contact		3a							
	Auxiliary Contact		2a2b							
Main + Auxiliary Block Added (2a2b)	Main Contact		3a							
	Auxiliary Contact		4a4b							

¹⁾ Maximum number of auxiliary contact that can be mounted horizontally on the side.

※ For auxiliary contact usage, refer to Page 62 ~ 63.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories			
				
	1 Auxiliary Contact Block (Side Mounting) HGC SB 800 - 62 page	2 Interlock Unit HGC IU 265 - 64 page	3 Thermal Overload Relay HGT 265 - 56 page	4 Front Safety Cover HGCFC 265 - 69 page

Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Nominal Voltage (V)	Operational Voltage (V)	HGC185	HGC225	HGC265
F220	AC 100 ~ 240 DC 110 ~ 220	HGC185 22NS F220	HGC225 22NS F220	HGC265 22NS F220
F440	AC 380 ~ 450	HGC185 22NS F440	HGC225 22NS F440	HGC265 22NS F440
Y220	AC 220 ~ 240	HGC185 22YS Y220	HGC225 22YS Y220	HGC265 22YS Y220

Ratings and Order Code

Magnetic Contactor : HGC 300 ~ 500 A

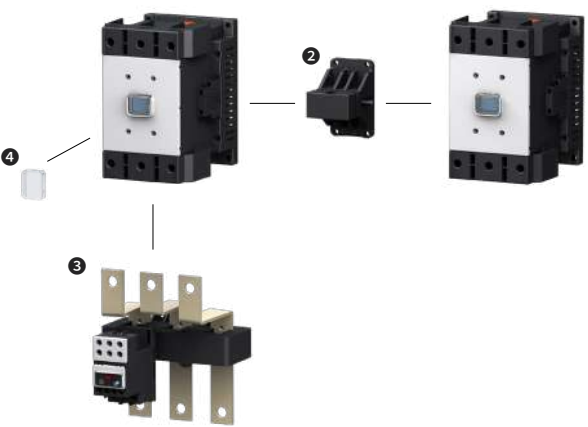
Rating				HGC						
Model Name				HGC300		HGC400		HGC500		
IEC 60947-4										
Rated Insulation Voltage [Ui]				V	1,000		1,000		1,000	
Rated Operational Voltage [Ue]				V	1,000		1,000		1,000	
Rated Impulse Withstand Voltage [Uimp]				kV	8		8		8	
Rated Thermal Current Ith (AC1)				A	400		500		550	
AC3	200 ~ 240 V 380 ~ 440 V 500 ~ 550 V 660 ~ 690 V 1,000 V			kW/A	90/300		125/400		140/500	
					160/300		220/400		250/500	
					200/273		250/300		300/426	
					200/220		250/300		335/360	
					200/141		250/178		275/192	
	Lifespan	Electrical	10,000 times	100		100		50		
	Mechanical	500		500		500				
AC4	200 ~ 240 V		kW/A	55/220		75/300		90/350		
	380 ~ 440 V			110/220		150/300		175/350		
	Electrical Lifespan		10,000 times	3		3		3		
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	300		300		300		
	50 % Load (DC)			600		600		600		
	20 % Load (DC)			1,200		1,200		1,200		
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	150		150		150		
	50 % Load			300		300		300		
Making Capacity	220 V		A	3,000		4,000		5,000		
	440 V			3,000		4,000		5,000		
Breaking Capacity	220 V		A	2,400		3,200		4,000		
	440 V			2,400		3,200		4,000		
Mounting Method				Screw Mounting						
Auxiliary Contact										
Standard		AC/DC			2NO2NC					
Additional ¹⁾		AC/DC			2NO2NC					
Dimensions		AC/DC	W×H×D	mm	163×243×203					
Weight		AC/DC			kg					
9.2										
Contact Arrangement										
Main	Main Contact		3a							
	Auxiliary Contact		2a2b							
Main + Auxiliary Block Added (2a2b)	Main Contact		3a							
	Auxiliary Contact		4a4b							

¹⁾ Maximum number of auxiliary contact that can be mounted horizontally on the side.

※ For auxiliary contact usage, refer to Page 62 ~ 63.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories			
				
❶ Auxiliary Contact Block (Side Mounting) HGC SB 800 - 62 page	❷ Interlock Unit HGC IU 800 - 64 page	❸ Thermal Overload Relay HGT 500 - 56 page	❹ Front Safety Cover HGCFC 500 - 69 page	

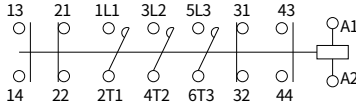
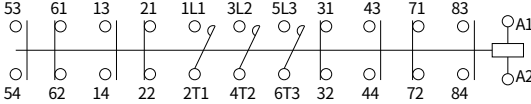
Order Code

• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Nominal Voltage (V)	Operational Voltage (V)	HGC300	HGC400	HGC500
F220	AC 100 ~ 240 DC 110 ~ 220	HGC300 22NS F220	HGC400 22NS F220	HGC500 22NS F220
F440	AC 380 ~ 450	HGC300 22NS F440	HGC400 22NS F440	HGC500 22NS F440
Y220	AC 220 ~ 240	HGC300 22YS Y220	HGC400 22YS Y220	HGC500 22YS Y220

Ratings and Order Code

Magnetic Contactor : HGC 630 ~ 800 A

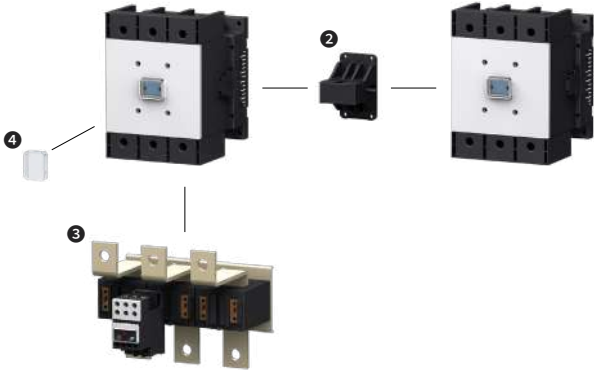
Rating				HGC	
Model Name				HGC630	HGC800
IEC 60947-4					
Rated Insulation Voltage [Ui]			V	1,000	1,000
Rated Operational Voltage [Ue]			V	1,000	1,000
Rated Impulse Withstand Voltage [Uimp]			kV	8	8
Rated Thermal Current Ith (AC1)			A	750	900
AC3	200 ~ 240 V		kW/A	190/630	220/800
	380 ~ 440 V			330/630	440/800
	500 ~ 550 V			330/500	500/720
	660 ~ 690 V			400/412	500/630
	1,000 V			300/213	400/284
	Lifespan	Electrical Mechanical	10,000 times	50 500	50 500
AC4	200 ~ 240 V		kW/A	110/400	160/630
	380 ~ 440 V			200/400	300/630
	Electrical Lifespan		10,000 times	3	3
AC1, 2, 3 Load Permitted Operating Frequency/Time	100 % Load		Frequency	300	300
	50 % Load (DC)			600	600
	20 % Load (DC)			1,200	1,200
AC4 Load Permitted Operating Frequency/Time	100 % Load		Frequency	150	150
	50 % Load			300	300
Making Capacity	220 V		A	6,300	8,000
	440 V			6,300	8,000
Breaking Capacity	220 V		A	5,040	6,400
	440 V			5,040	6,400
Mounting Method				Screw Mounting	
Auxiliary Contact					
Standard	AC/DC			2NO2NC	
Additional ¹⁾	AC/DC			2NO2NC	
Dimensions	AC/DC	W×H×D	mm	276×314×255.3	
Weight	AC/DC			kg 25	
Contact Arrangement					
Main	Main Contact	3a			
	Auxiliary Contact	2a2b			
Main + Auxiliary Block Added (2a2b)	Main Contact	3a			
	Auxiliary Contact	4a4b			

¹⁾ Maximum number of auxiliary contact that can be mounted horizontally on the side.

※ For auxiliary contact usage, refer to Page 62 ~ 63.

※ When implementing an electrical interlock using the b(NC) contact of a contactor, additional safety measures such as time delays and mechanical interlocks must be applied to prevent short circuit accidents.

Accessories

Auxiliary Contacts	Other Accessories		
			
1 Auxiliary Contact Block (Side Mounting) HGC SB 800 - 62 page	2 Interlock Unit HGC IU 800 - 64 page	3 Thermal Overload Relay HGT 800 - 56 page	4 Front Safety Cover HGCFC 800 - 69 page

Order Code

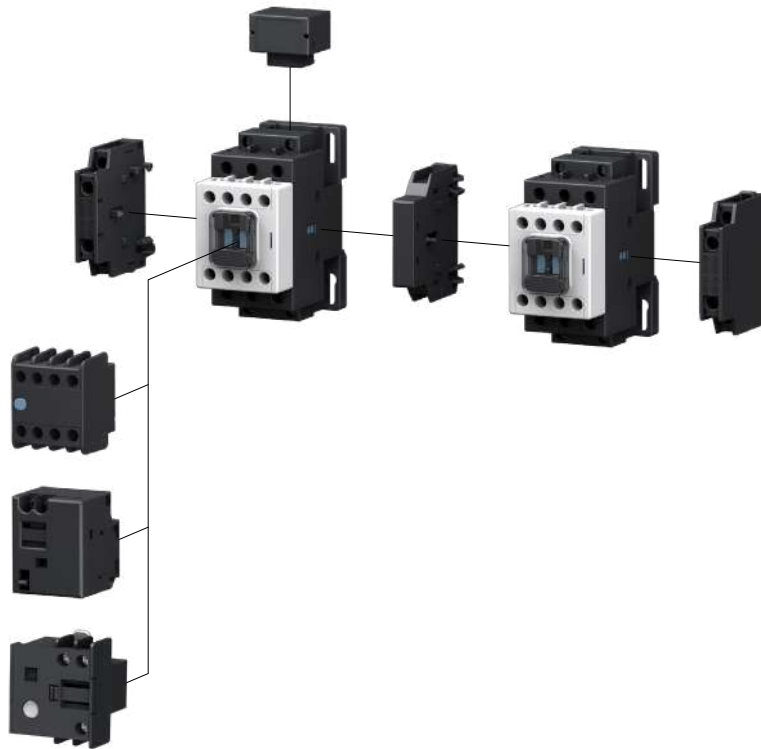
• Based on standard order (General type, with terminal cover), without accessories/
Auxiliary contact : Based on 2NO2NC

Nominal Voltage (V)	Operational Voltage (V)	HGC630	HGC800
110	AC 100 ~ 127 DC 100 ~ 110	HGC630 22NS F110	HGC800 22NS F110
220	AC 200 ~ 240 DC 200 ~ 220	HGC630 22NS F220	HGC800 22NS F220
440	AC 380 ~ 450	HGC630 22NS F440	HGC800 22NS F440

Accessories

Order Code

HGC	TB		22NS	N	
Model Name	Accessories		Detailed Ratings	Purpose	
HGC	TB	Auxiliary Contact (Front Mounting)	Refer to the Relevant Page per Accessory		N
	SB	Auxiliary Contact (Side Mounting)			Non 1E Class
	IU	Interlock Unit	Nuclear		
	LB	Mechanical Latching Block	04Q	0NO + 4NC	
	RC	Surge Absorber	13Q	1NO + 3NC	
	CD	Clamping Diode	22Q	2NO + 2NC	
	ET	Electronic Timer	31Q	3NO + 1NC	
	CU	Capacitor Switching Unit	40Q	4NO + 0NC	



※ The order format above is to explain the order code. For detailed specification per type, refer to the relevant page upon placing the order.

Dimensions

Magnetic Contactor

Unit : mm

HGC9
HGC12
HGC18

Coil Terminal (M3.5)
Main Terminal (M4)
AUX. Terminal (M3.5)

94.2
84.6
63.6
39

45
30
28
23.7

91.1

35

83.7
61.5

124

AC Coil

DC Coil

Accessories	A (mm)
Auxiliary Contact HGCTB	35
Latching Block HGCLB	42.5
Timer HGCET	39

HGC25
HGC32
HGC40

Coil Terminal (M3.5)
Main Terminal (M5)
AUX. Terminal (M3.5)

99.6
90
66
39

45
30
28
23.7

96.6

37.3

89.1
61.5

129.5

AC Coil

DC Coil

Accessories	A (mm)
Auxiliary Contact HGCTB	35
Latching Block HGCLB	42.5
Timer HGCET	39

HGC50
HGC65
(AC/DC)

COIL Terminal (M3.5)
MAIN Terminal (M6)
AUX. Terminal (M3.5)

123.6
113.3
84.2
39

55
35
30
18.6

126.2

47
37.5

89
116.5

Accessories	A (mm)
Auxiliary Contact HGCTB	35
Latching Block HGCLB	42.5
Timer HGCET	39

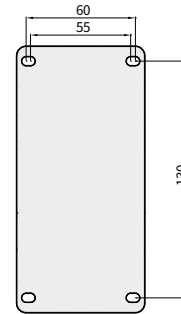
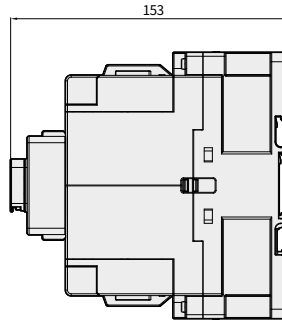
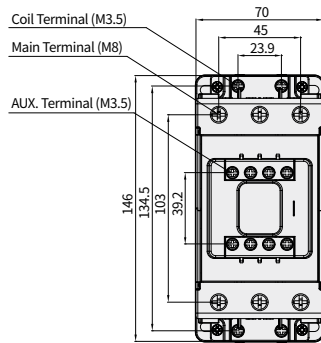
※ The dimensions of the drawing on this page may be subject to change without notice.
() Refers to the DC type.

Dimensions

Electronic Contactor

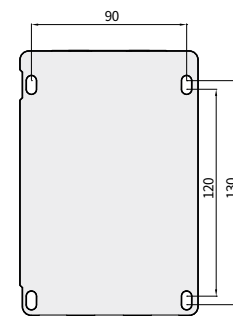
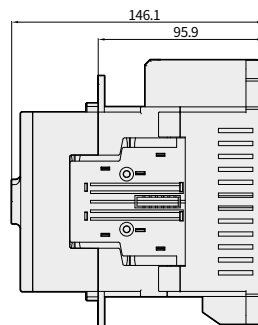
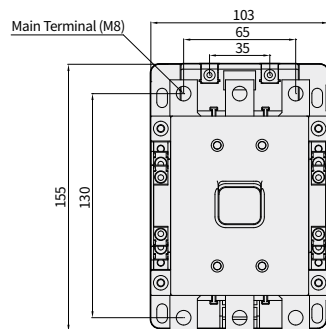
Unit : mm

HGC75
HGC85
HGC100
(AC/DC)

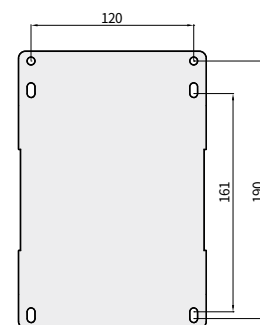
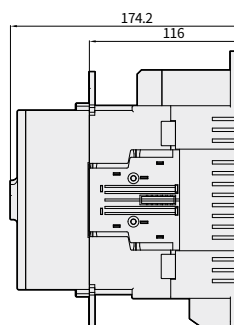
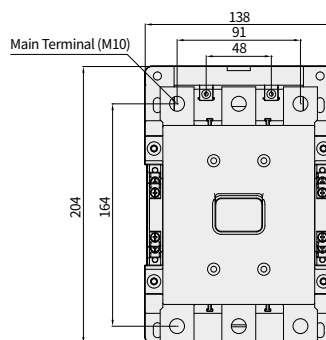


Accessories	A (mm)
Auxiliary Contact HGCTB	35
Latching Block HGCLB	42.5
Timer HGCET	39

HGC115
HGC130
HGC150



HGC185
HGC225
HGC265

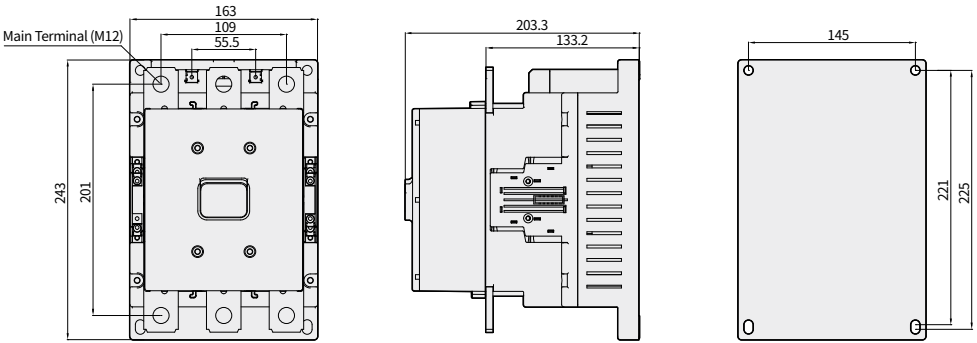


※ The dimensions of the drawing on this page may be subject to change without notice.

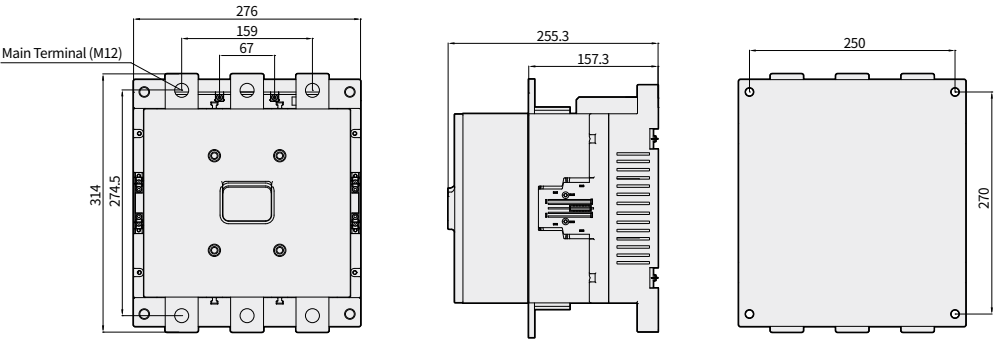
() Refers to the DC type.

Unit : mm

HGC300
HGC400
HGC500



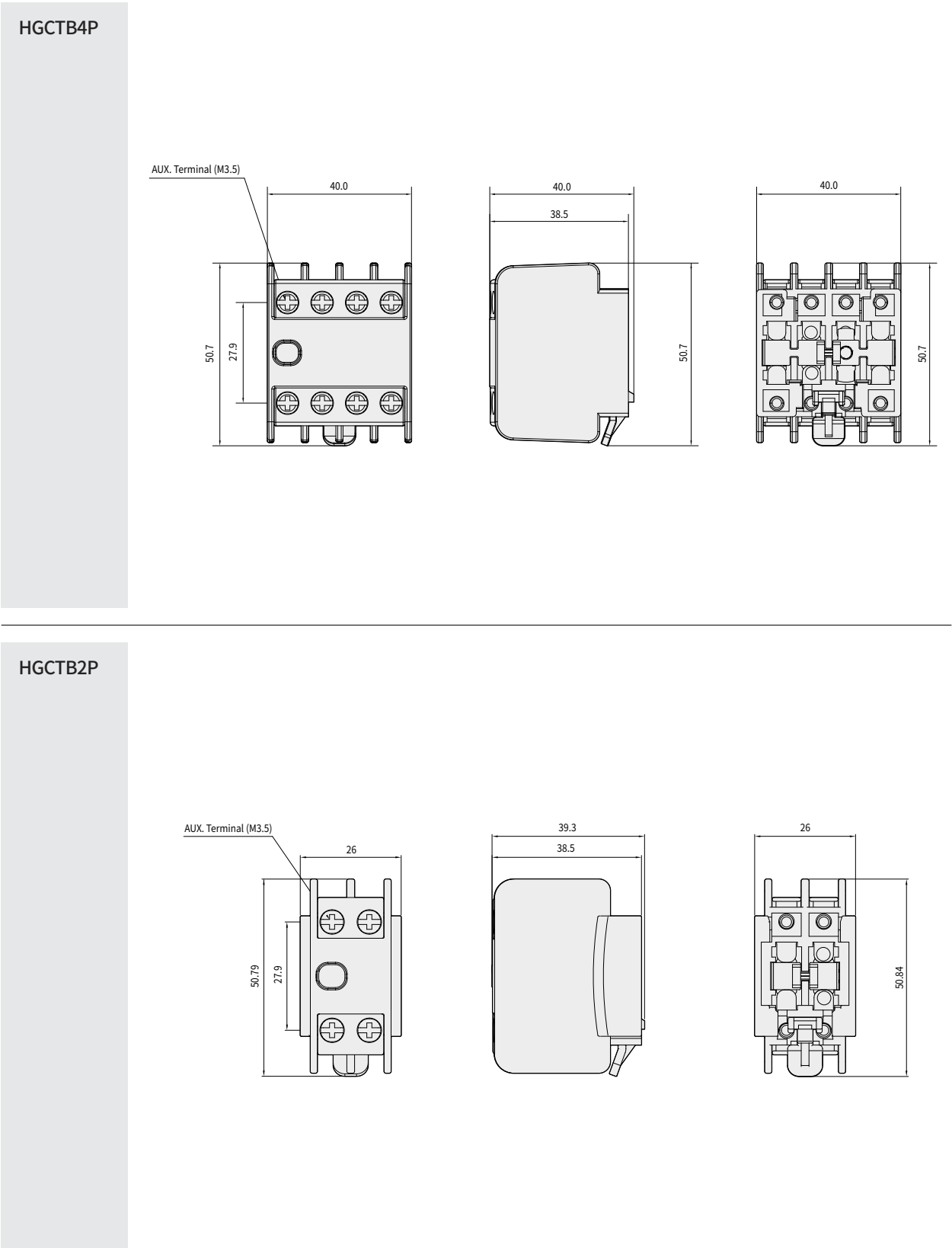
HGC630
HGC800



※ The dimensions of the drawing on this page may be subject to change without notice.
() Refers to the DC type.

Auxiliary Contact Block (Front Mounting)

Unit : mm



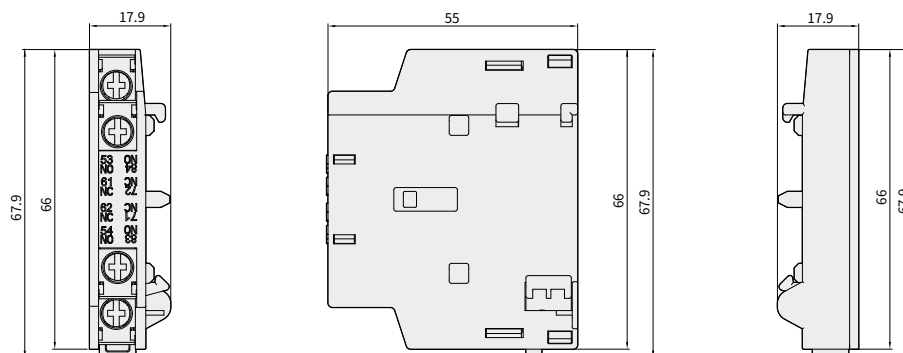
※ The dimensions of the drawing on this page may be subject to change without notice.

Dimensions

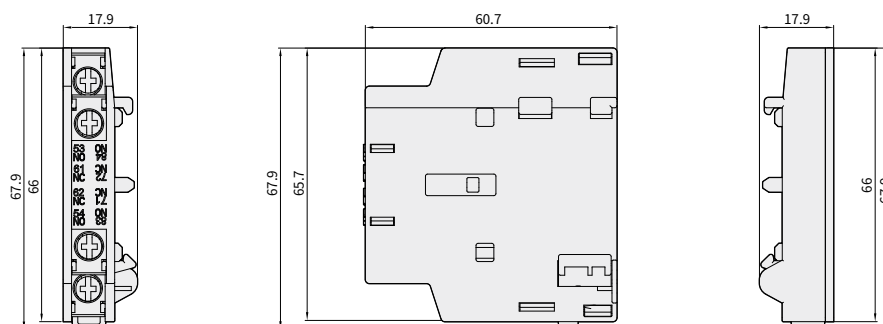
Auxiliary Control Block (Side Mounting)

Unit : mm

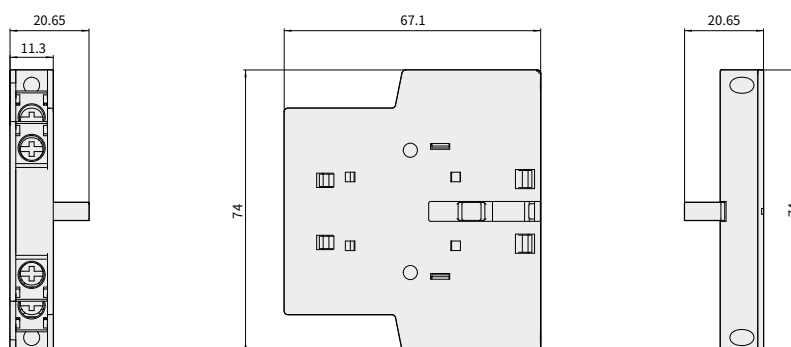
HGCSB40



HGCSB100



HGCSB800

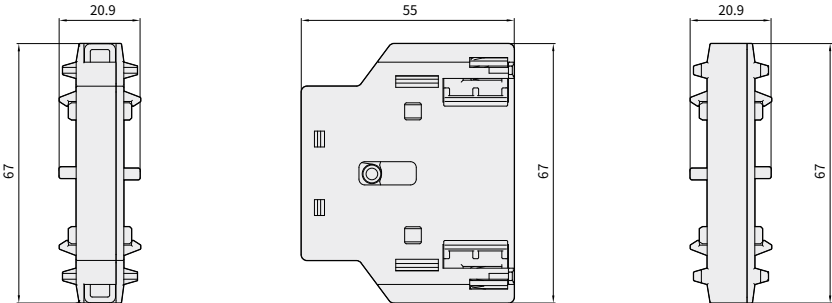


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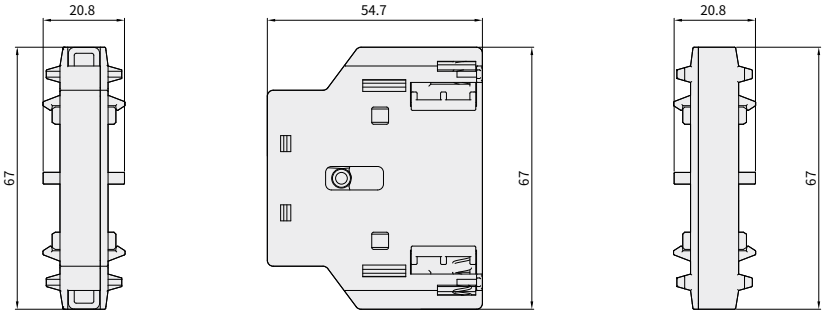
Interlock Unit

Unit : mm

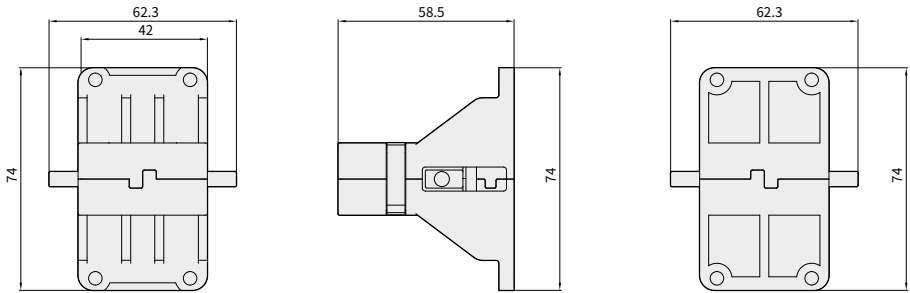
HGCIU40



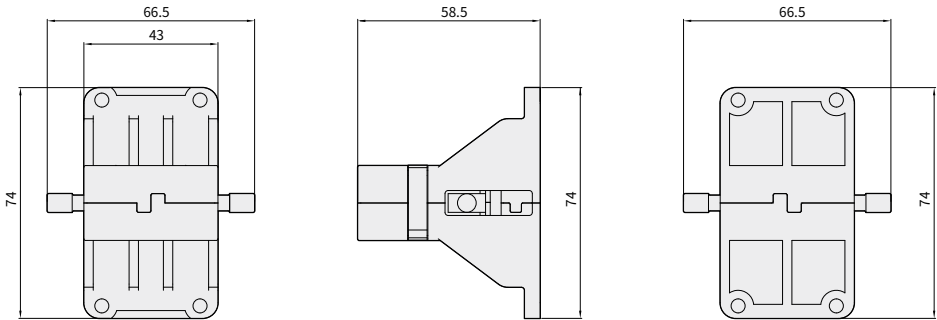
HGCIU100



HGCIU265



HGCIU800



※ The dimensions of the drawing on this page may be subject to change without notice.

Order Code

Magnetic Contactor

HGC		12			22			
Model Name		Type and Capacity		Type and Capacity		Auxiliary Contact		
HGC	Magnetic Contactor	Standard Magnetic Contactor		Magnetic Contactor for Capacitor			Standard Magnetic Contactor	Applicable Type
		Code	Rated Current	Rated Capacity	Code	Rated Current	Capacitor (AC 440 V)	
			AC3/AC 400 V					
		9	9 A	4 kW	9C	9 A	9.7 kVAR	
		12	12 A	5.5 kW	12C	12 A	12 kVAR	
		18	18 A	7.5 kW	18C	18 A	16.7 kVAR	
		25	25 A	11 kW	25C	25 A	20 kVAR	
		32	32 A	15 kW	32C	32 A	25 kVAR	
		40	40 A	18.5 kW	40C	40 A	29 kVAR	
		50	50 A	22 kW	50C	50 A	40 kVAR	
		65	65 A	30 kW	65C	65 A	43.5 kVAR	
		75	75 A	37 kW	75C	75 A	52 kVAR	
		85	85 A	45 kW	85C	85 A	56 kVAR	
		100	100 A	55 kW	100C	100 A	62 kVAR	
		115	115 A	60 kW				
		130	130 A	65 kW				
		150	150 A	75 kW				
		185	185 A	90 kW				
		225	225 A	132 kW				
		265	265 A	147 kW				
		300	300 A	160 kW				
		400	400 A	220 kW				
		500	500 A	250 kW				
		630	630 A	330 kW				
		800	800 A	440 kW				
		For Nuclear						
		32Q	32 A					
		65Q	65 A					
		100Q	100 A					
		150Q	150 A					
		300Q	300 A					

※ The order format above is to explain the order code. For detailed specification per type, refer to the relevant page upon placing the order.

N		S		A		220		N	
Purpose		Terminal Type		Category of Operational Coil Voltage		Operational Coil Voltage		Purpose	
N	General	Standard Magnetic Contactor		Standard Magnetic Contactor		24	X, A AC 50/60 Hz	N	Non 1E Class
		S	With Terminal Cover (9 ~ 100A)	X	AC 50 Hz (9 ~ 100 A)	48			
		Magnetic Contactor for Capacitor				110			
				A	AC 60 Hz (9 ~ 100 A)	120			
		S	With Terminal Cover			220			
				D	DC (9 ~ 100 A)	240	D DC		
						380			
						440			
						24			
						48			
						110	AC 100 ~ 240 DC 110 ~ 220		
						125			
						220	AC 380 ~ 450		
				F	AC/DC (115 ~ 500 A)	220			
						440	AC 100 ~ 127 DC 100 ~ 110		
						110			
						220	AC 200 ~ 240 DC 200 ~ 220		
						440			
							AC 380 ~ 450		
				Magnetic Contactor for Capacitor					
				X	AC 50 Hz				
				A	AC 60 Hz				