

Midi-Contactors

Specifications



Type	Model		
	Connection by screws clamp terminals		
	Connection by lugs		
Number of poles			
Rated operational voltage, Ue			
Rated insulation voltage, Ui			
	Conforming to IEC947-4-1		
	Conforming to UL, CSA		
Rated impulse withstand voltage, Uimp			
Degree of pollution (IEC60529)			
Rated operational current Ie ($\theta \leq 55^{\circ}\text{C}$)			
AC Motors	1-Phase	Ue Max 690	[A]
		110~120V	[A]
		220~240V	[A]
	3-Phase	200~240V	[A]
		220~240V	[A]
		440~480V	[A]
		550~600V	[A]
Rated operational power ($\theta \leq 55^{\circ}\text{C}$)			
AC Motors	1-Phase	110~120V	[Hp]
		220~240V	[Hp]
	3-Phase	200~208V	[Hp]
		220~240V	[Hp]
		440~480V	[Hp]
		550~600V	[Hp]
Rated operational current (440V AC-3) [A]			
CSA Elevator Ratings 200~600V 3 Phase [A]			
According to IEC 947-4-1		Rated making capacity AC-3 (I/Ie) [440V]	
		Rated breaking capacity AC-3 (Ic/Ie) [440V]	
Mechanical durability in millions of operating cycles			
Maximum operating rate In operating cycles per hour			
Mechanical durability in millions of operating cycles			
Maximum operating rate In operating cycles per hour			
Electrical life for Ie/AC-3 Max in millions of operating cycles			
Maximum operating rate in operating cycles per hour			
AC control coil voltage operated contactors			
	Weight		[kg]
	Basic dimensions (W × H × D)		[mm]
DC control coil voltage operated contactors			
	Weight		[kg]
	Basic dimensions (W × H × D)		[mm]

12AF		32AF		
GC9	GC12	GC18	GC25	GC32
●	●	●	●	●
N/A	N/A	N/A	N/A	N/A
3				
690V				
1000V				
600V				
8kV				
IP20				
25	25	40	40	50
9.8	13.8	16	24	26
10	12	17	17	28
7.5	10.6	16.7	24.2	24.2
9.6	15.2	22	28	28
7.6	11	11	21	27
9	11	17	22	27
0.5	0.75	1	2	2
1.5	2	3	3	5
2	3	5	7.5	7.5
3	5	7.5	10	10
5	7.5	10	15	25
7.5	10	15	20	25
9	12	18	25	32
Available in 2009	Available in 2009	20	20	25
90	120	180	250	320
72	96	144	200	256
15	15	15	15	15
1800	1800	1800	1800	1800
8.07	8.07	8.07	8.07	8.07
7200	7200	7200	7200	7200
2.5	2.5	2.5	2.5	2.5
1800	1800	1800	1800	1800
0.45				
45 x 83 x 93				
0.63				
45 x 83 x 118				

Midi-Contactors



63AF			
GC35	GC40	GC50	GC63
•	•	•	•
•	•	•	•
3			
690V			
1000V			
600V			
8kV			
IP20			
55	60	70	75
24	34	34	56
28	40	50	50
30.8	46.2	54.4	54.4
42	54	68	68
34	40	52	52
32	41	52	52
2	3	3	5
5	7.5	10	10
10	15	20	20
15	20	25	25
25	30	40	40
30	40	50	50
35	40	50	63
30	32.5	37.5	42
350	400	500	630
280	320	400	504
12	12	12	12
1200	1200	1200	1200
5.97	5.97	5.97	5.97
7200	7200	7200	7200
2	2	2	1.3
1200	1200	1200	1200
0.94			
55 × 106 × 122			
1.2			
55 × 106 × 160.5			



95AF			
GC65	GC75	GC 85	GC95
•	•	•	•
•	•	•	•
3			
690V			
1000V			
600V			
8kV			
IP20			
100	110	135	140
56	56	80	100
68	68	68	88
74.8	74.8	88	88
80	80	104	104
65	65	77	96
62	62	77	77
5	5	7.5	10
15	15	15	20
25	25	30	30
30	30	40	60
50	50	60	75
60	60	75	75
65	75	85	95
55	60	70	75
650	750	850	950
520	600	680	760
12	12	12	12
1200	1200	1200	1200
5.97	5.97	5.97	5.97
7200	7200	7200	7200
2	2	2	2
1200	1200	1200	1200
1.82			
70 × 140 × 137			
2.7			
70 × 140 × 172.5			

Midi-Contactors

3-pole contactors

for motor control up to 45kW at 440V in category AC-3

Control circuit voltage : AC or DC

Connection by screw clamp terminals



GC12S



GC32S



GC63S



GC95S

AC-3 operational power ratings 3-phase motors ($\theta \leq 55^\circ\text{C}$)						Rated operational current at AC-3	Built-in auxiliary contacts		Type	Weight
200 240V	380 400V	415V	440V	500V	690V	440V	NO	NC	Connection by screw clamp terminals	AC control
kW	kW	kW	kW	kW	kW	A				kg
2.5	4	4	4	4	4	9	1	0*	GC9S	0.26
3.5	5.5	5.5	5.5	7.5	7.5	12	1	0*	GC12S	0.26
4.5	7.5	7.5	7.5	7.5	7.5	18	1	1	GC18S	0.45
5.5	11	11	11	15	15	25	1	1	GC25S	0.45
11	18.5	18.5	18.5	22	22	32	1	1	GC32S	0.45
7.5	15	15	15	18.5	18.5	35	2	2	GC35S	0.94
11	18.5	18.5	18.5	22	22	40	2	2	GC40S	0.94
15	22	22	22	30	30	50	2	2	GC50S	0.94
15	25	25	25	30	30	63	2	2	GC63S	0.94
18.5	30	30	30	33	33	65	2	2	GC65S	1.82
22	37	37	37	37	37	75	2	2	GC75S	1.82
25	45	45	45	45	45	85	2	2	GC85S	1.82
25	45	45	45	50	45	95	2	2	GC95S	1.82

Accessories

Auxiliary contact blocks and modules: see pages B-1-13 to B-1-17.

Mounting

Clip-on mounting on 35 mm  rail or screw fixing.

GC65 to GC95 types are mountable on 70mm DIN rail.

Standard control circuit voltage, Coil voltage

- AC circuit 50/60Hz
50Hz : 24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V
60Hz : 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V
50/60Hz : 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V

- DC circuit
12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Overloads to suit contactors are on page B-2-2.

* 1NC version is also available

Midi-Contactors

3-pole contactors

for control in utilization category AC-1, 25 to 140 A

Control circuit voltage : AC or DC

Connection by screw clamp terminals



GC12S



GC32S



GC63S



GC95S

AC-1 Non inductive loads maximum current ($\theta \leq 55^\circ\text{C}$)	Number of poles	Built-in auxiliary contacts		Type	Weight
		NO	NC	Connection by screw clamp terminals	AC control kg
AC-1 (A)	NO	NO	NC		
25	3	1	0*	GC9S	0.26
25	3	1	0*	GC12S	0.26
40	3	1	1	GC18S	0.45
40	3	1	1	GC25S	0.45
50	3	1	1	GC32S	0.45
55	3	2	2	GC35S	0.94
60	3	2	2	GC40S	0.94
70	3	2	2	GC50S	0.94
75	3	2	2	GC63S	0.94
100	3	2	2	GC65S	1.82
110	3	2	2	GC75S	1.82
135	3	2	2	GC85S	1.82
140	3	2	2	GC95S	1.82

Accessories

Auxiliary contact blocks and modules: see pages B-1-13 to B-1-17.

Mounting

Clip-on mounting on 35 mm  rail or screw fixing.

GC65 to GC95 types are mountable on 70mm DIN rail.

Standard control circuit voltage, Coil voltage

• AC circuit 50/60Hz

50Hz : 24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V

60Hz : 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V

50/60Hz : 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V

• DC circuit

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Overloads to suit contactors are on page B-2-2.

* 1NC version is also available

Midi-Contactors

3-pole contactors

for motor control up to 45kW at 440V in category AC-3

Control circuit voltage : AC or DC

Connection by lugs



GC63L



GC95L

AC-3 operational power ratings 3-phase motors ($\theta \leq 55^\circ\text{C}$)						Rated operational current at AC-3	Built-in auxiliary contacts		Type	Weight
200 240V	380 400V	415V	440V	500V	690V	440V	NO	NC	Connection by lugs terminals	AC control
kW	kW	kW	kW	kW	kW	A				kg
7.5	15	15	15	18.5	18.5	35	2	2	GC35L	0.94
11	18.5	18.5	18.5	22	22	40	2	2	GC40L	0.94
15	22	22	22	30	30	50	2	2	GC50L	0.94
15	25	25	25	30	30	63	2	2	GC63L	0.94
18.5	30	30	30	33	33	65	2	2	GC65L	1.82
22	37	37	37	37	37	75	2	2	GC75L	1.82
25	45	45	45	45	45	85	2	2	GC85L	1.82
25	45	45	45	50	45	95	2	2	GC95L	1.82

Accessories

Auxiliary contact blocks and modules: see pages B-1-13 to B-1-17.

Mounting

Clip-on mounting on 35 mm  rail or screw fixing.
GC65 to GC95 types are mountable on 70mm DIN rail.

Standard control circuit voltage, Coil voltage

- AC circuit 50/60Hz
50Hz : 24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V
60Hz : 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V
50/60Hz : 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V
- DC circuit
12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Overloads to suit contactors are on page B-2-2.

Midi-Contactors

3-pole contactors

for control in utilization category AC-1, 25 to 140 A

Control circuit voltage : AC or DC

Connection by lugs



GC63L



GC95L

AC-1 Non inductive loads maximum current ($\theta \leq 55^\circ\text{C}$)	Number of poles	Built-in auxiliary contacts		Type	Weight
		NC	NO	Connection by lugs terminals	AC control kg
AC-1 (A)	NO				
55	3	2	2	GC35 L	0.94
60	3	2	2	GC40 L	0.94
70	3	2	2	GC50 L	0.94
75	3	2	2	GC63 L	0.94
100	3	2	2	GC65 L	1.82
110	3	2	2	GC75 L	1.82
135	3	2	2	GC85 L	1.82
140	3	2	2	GC95 L	1.82

Accessories

Auxiliary contact blocks and modules: see pages B-1-13 to B-1-17.

Mounting

Clip-on mounting on 35 mm $\square$ rail or screw fixing.

GC65 to GC95 types are mountable on 70mm DIN rail.

Standard control circuit voltage, Coil voltage

• AC circuit 50/60Hz

50Hz : 24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V

60Hz : 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V

50/60Hz : 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V

• DC circuit

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Overloads to suit contactors are on page B-2-2.

Control circuit characteristics



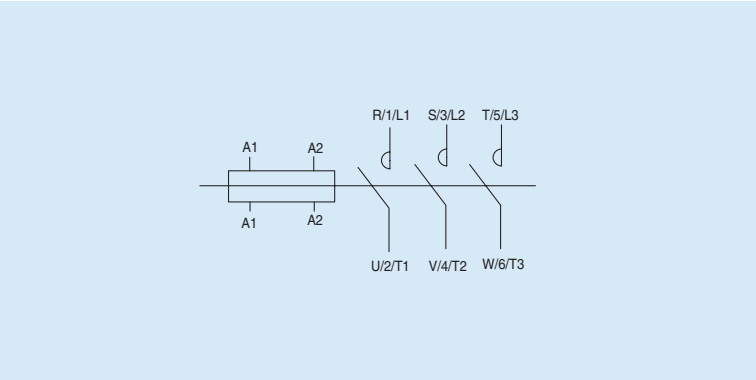
Type
Contactor types
AC control circuit characteristics
Rated control circuit voltage [Uc]
50Hz [V]
60Hz [V]
50/60Hz [V]
Control voltage limits
Operational
Drop-out
Coil consumption at 20°C
Inrush [VA]
Holding [VA]
Heat dissipation [W]
Operating time
Closing [ms]
Opening [ms]
DC control circuit characteristics
Rated control circuit voltage [Uc]
Control voltage limits
Operational
Drop-out
Coil consumption at 20°C
Inrush [W]
Holding [W]
Time constant (L/R) [ms]
Operating time
Closing [ms]
Opening [ms]

32AF	63AF	95AF
GC9	GC35	GC65
GC12	GC40	GC75
GC18	GC50	GC85
GC25	GC63	GC95
GC32		
24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V		
24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V		
24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V		
0.85 ... 1.1 Uc on 50 Hz		
0.85 ... 1.1 Uc on 60 Hz		
0.3 ... 0.6 Uc		
80	120	220
9	11	16
2.2	2.2	5.1
12 ... 22	12 ... 22	15 ... 30
4 ... 19	4 ... 19	15 ... 30
12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250		
0.7 ... 1.1Uc		
0.1 ... 0.3 Uc		
7	9	18
7	9	18
28	65	75
12 ... 22	12 ... 22	100 ... 120
4 ... 19	4 ... 19	10 ... 25

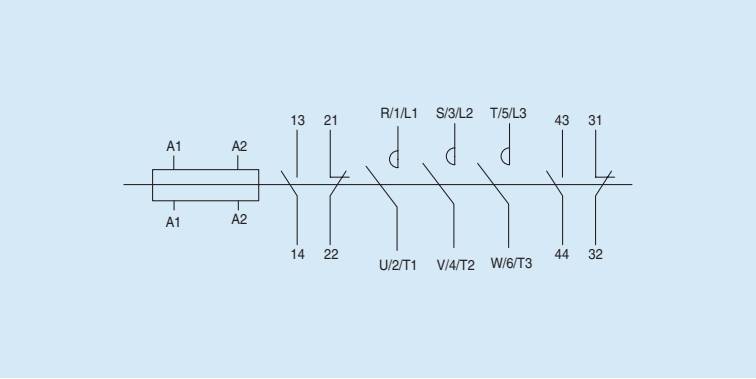
Overall Dimensions

Circuit diagram

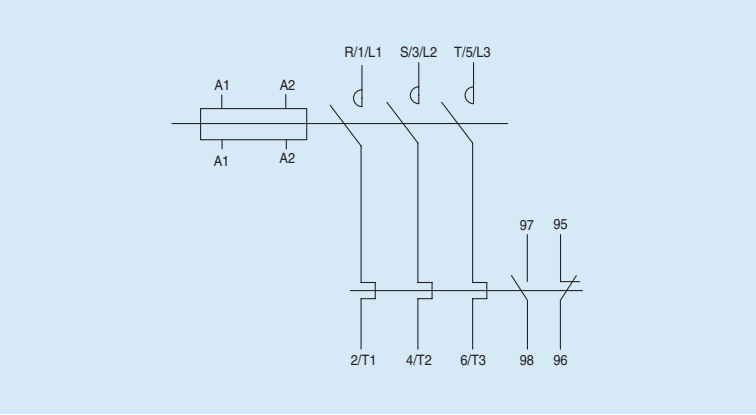
GC9~95



GC9~95 2N02NC



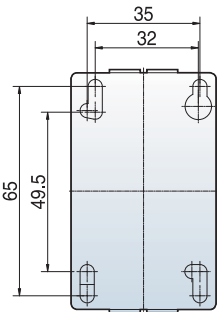
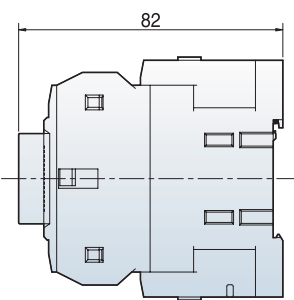
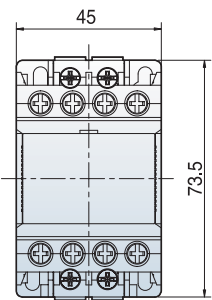
GC9~95



Overall Dimensions

Contactors

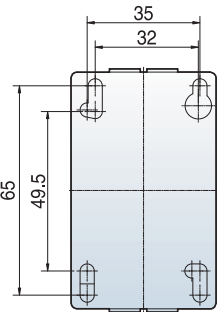
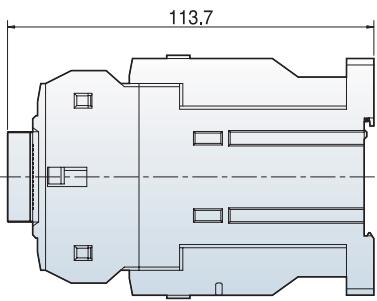
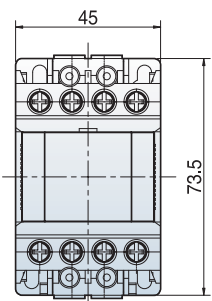
GC-9~12 AC
1a or 1b



[mm]

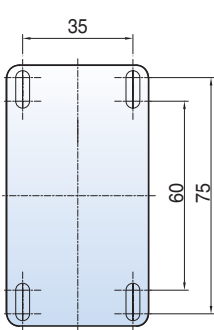
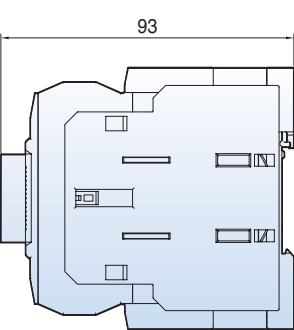
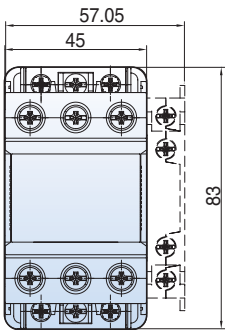
0.262kg

GC-9~12 DC
1a or 1b



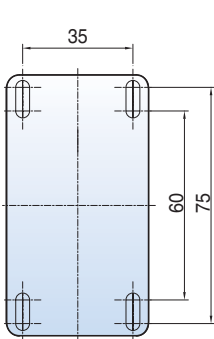
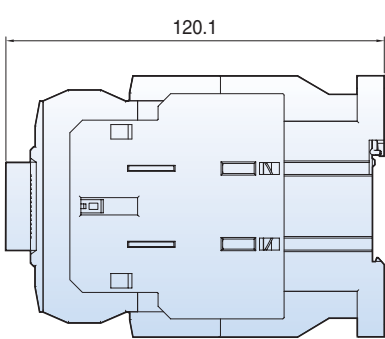
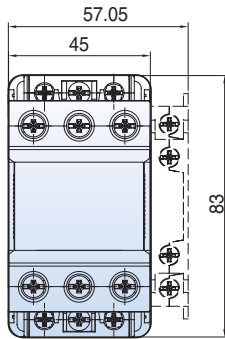
0.468kg

GC-18~32 AC
1a1b



0.549kg

GC-18~32 DC
1a1b



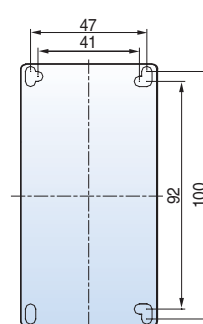
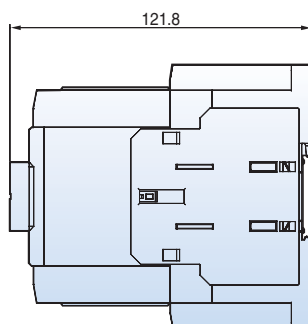
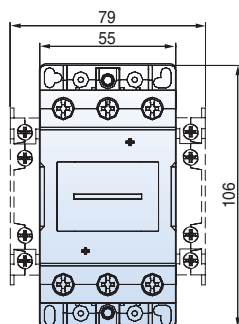
0.765kg

Overall Dimensions

Contactors

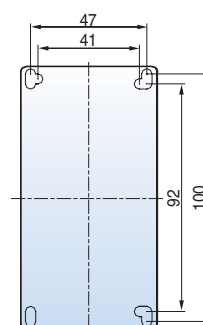
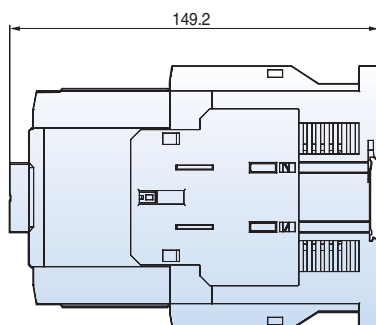
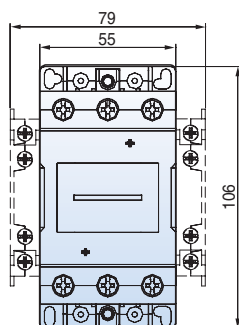
[mm]

GC-35~63 AC
2a2b



1.045kg

GC-35~63 DC
2a2b



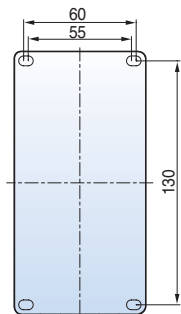
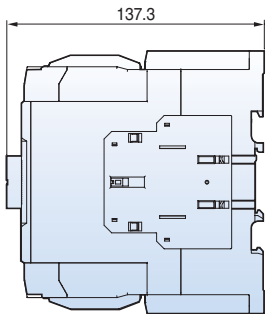
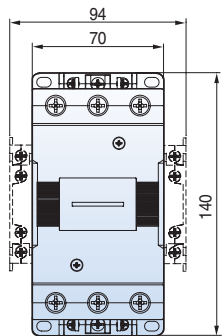
1.301kg

Overall Dimensions

Contactors

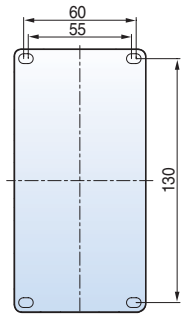
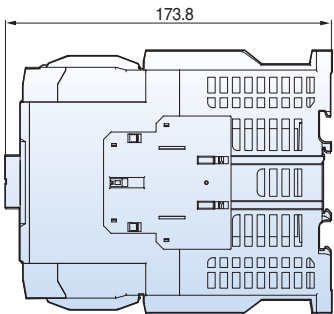
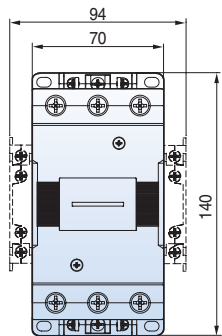
[mm]

GC-65~95 AC
2a2b



1.925kg

GC-65~95 DC
2a2b



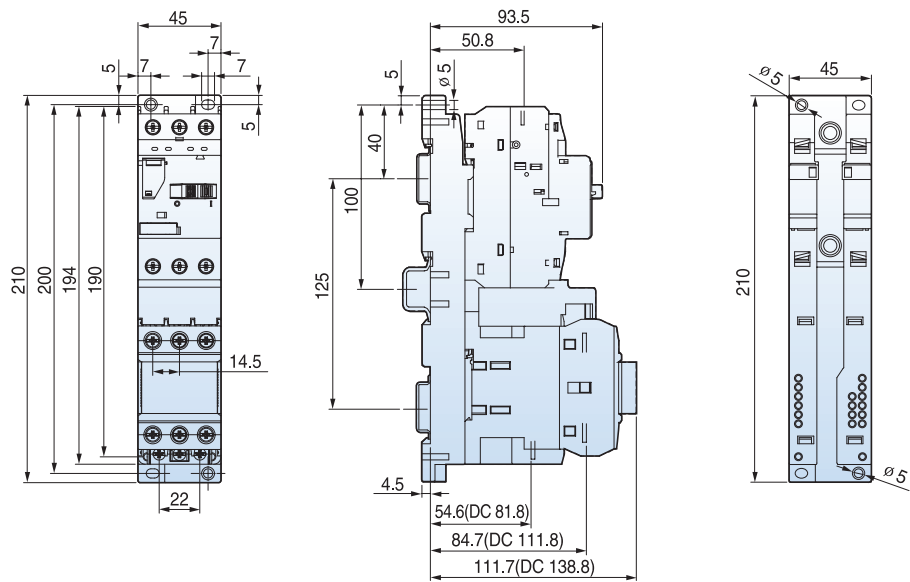
2.805kg

Overall Dimensions

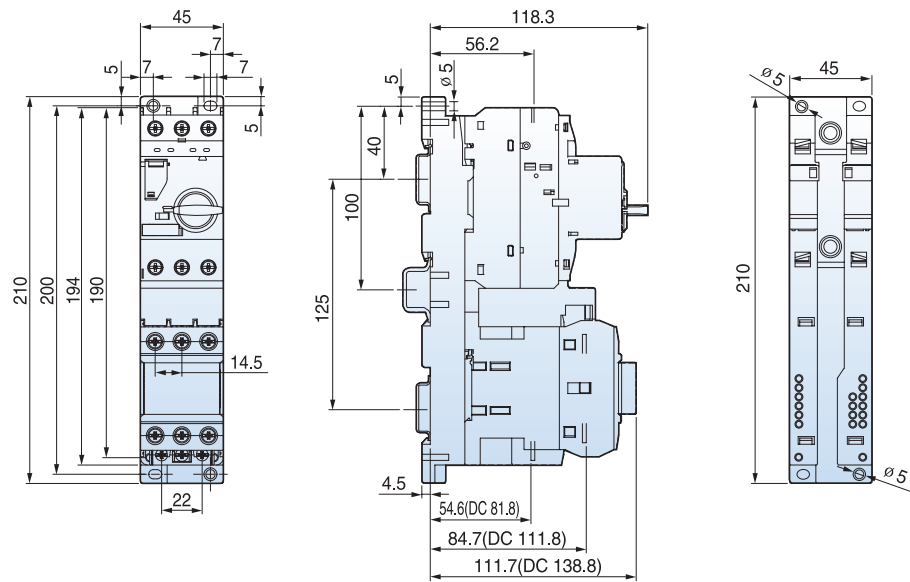
Combination manual motor starters and contactors

[mm]

GMS-32S
+
GC32AF



GMS-32H
+
GC32AF



Overall Dimensions

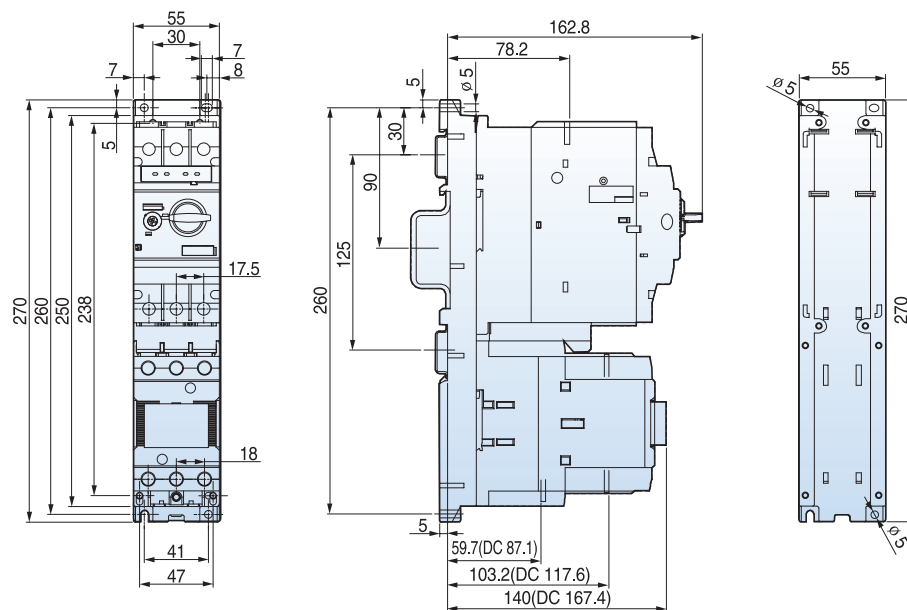
Combination manual motor starters and contactors

[mm]

GMS-63H

+

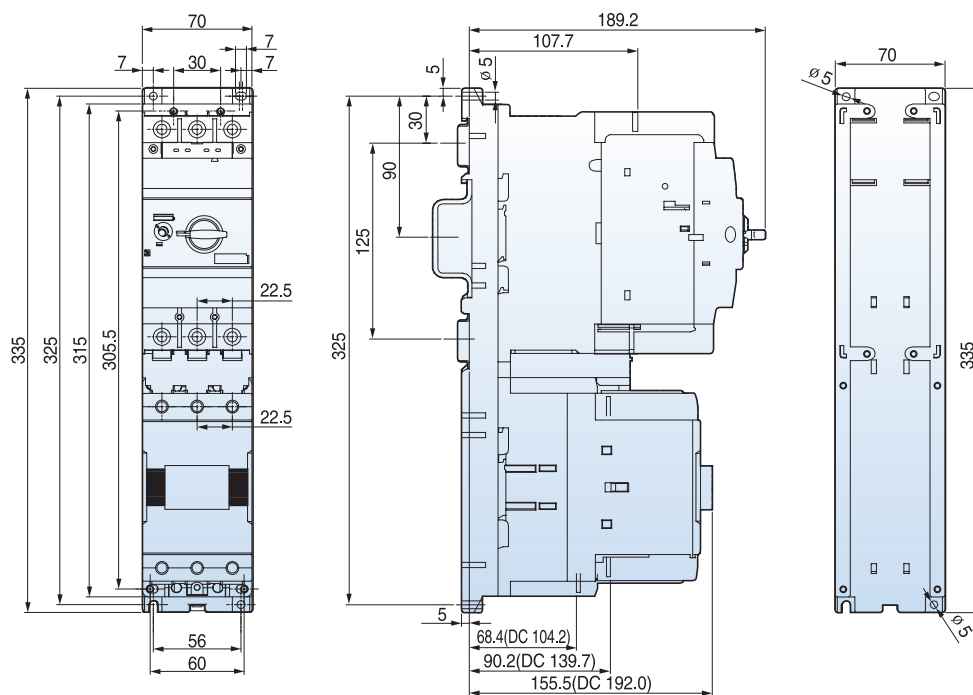
GC63AF



GMS-100H

+

GC95AF



Overall Dimensions

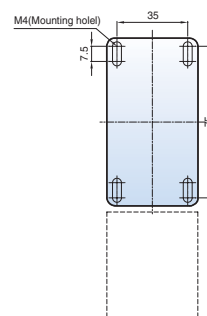
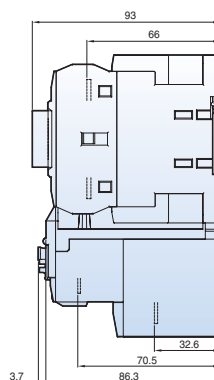
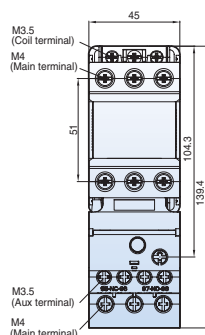
Motor starters (Screw type)

[mm]

GS18

GS25

GS32



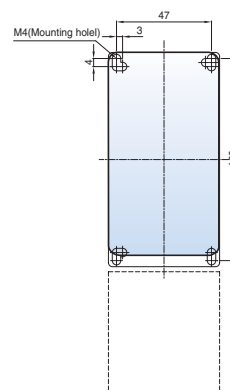
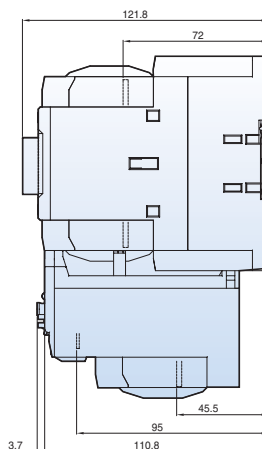
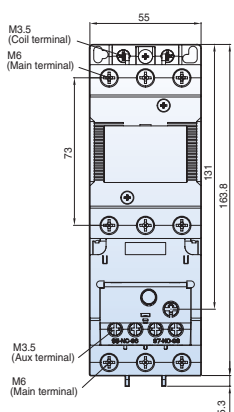
0.61kg

GS35

GS40

GS50

GS63



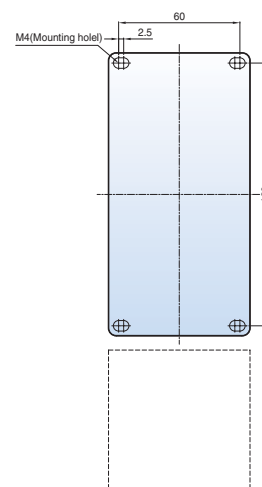
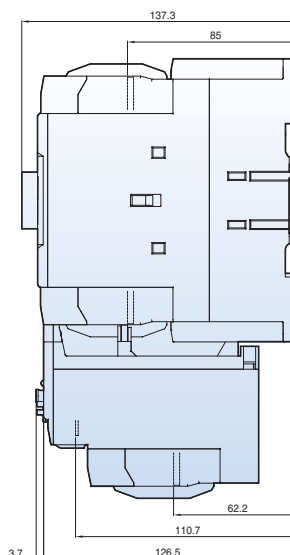
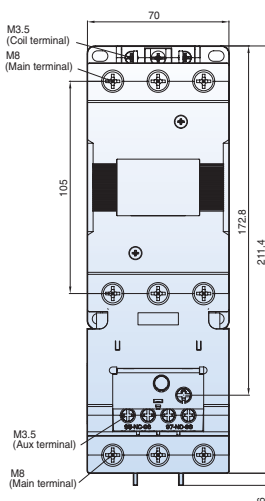
1.14kg

GS-65

GS-75

GS-85

GS-95

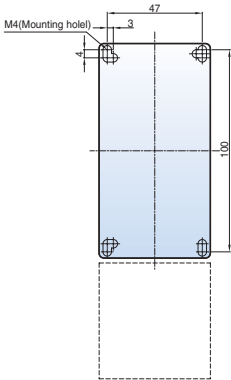
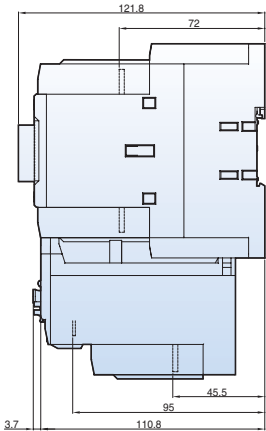
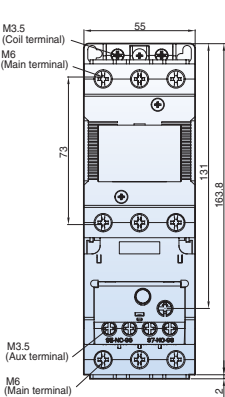


2.19kg

Overall Dimensions

Motor starters (Lug type)

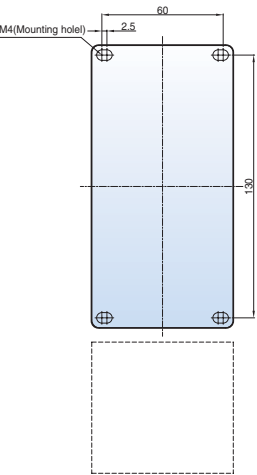
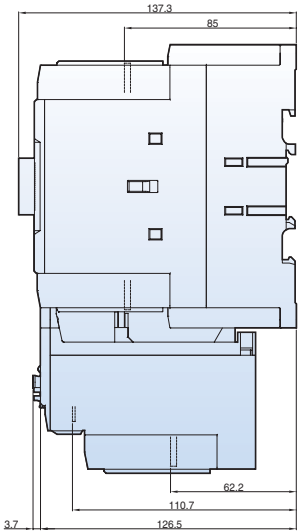
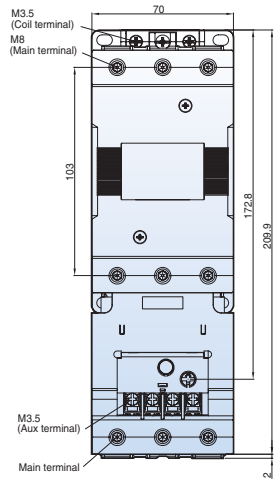
- GS35L
- GS40L
- GS50L
- GS63L



[mm]

1.14kg

- GS65L
- GS75L
- GS85L
- GS95L



2.19kg

GC 9 A 120

NC	1NC
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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Carlo Gavazzi:

[GCA32A440VAC60HZ](#) [GCA63A12VDC](#) [GCA63A500VAC50/60HZ](#) [GCA95A240VAC50/60HZ](#) [GCA32A12VDC](#)
[GCA32A220VAC50/60HZ](#) [GCA400A400VAC50/60H](#) [GCA32A240VAC60HZ](#) [GCA32A48VAC60HZ](#)
[GCA63A110VAC50/60HZ](#) [GCA63A120VAC50/60HZ](#) [GCA63A220VAC60HZ](#) [GCA95A220VAC50/60HZ](#)
[GCA95A24VDC](#) [GCA95A440VAC60HZ](#) [GCA32A24VDC](#) [GCA63A220VAC50/60HZ](#) [GCA800A200VACDC](#)
[GCA95A24VAC50HZ](#) [GCA32A277VAC60HZ](#) [GCA32A480VAC60HZ](#) [GCA63A208VAC60HZ](#) [GCA95A24VAC50/60HZ](#)
[GCA32A125VDC](#) [GCA32A230VAC50/60HZ](#) [GCA95A110VDC](#) [GCA32A120VAC60HZ](#) [GCA32A240VAC50/60HZ](#)
[GCA32A600VAC60HZ](#) [GCA63A110VDC](#) [GCA95A110VAC50/60HZ](#) [GCA95A220VAC60HZ](#) [GCA32A208VAC60HZ](#)
[GCA32A220VAC60HZ](#) [GCA400A100/200VACDC](#) [GCA63A24VAC50/60HZ](#) [GCA95A500VAC50/60HZ](#)
[GCA400A500VAC50/60H](#) [GCA63A240VAC60HZ](#) [GCA95A120VAC50/60HZ](#) [GCA95A48VDC](#) [GCA32A24VAC50/60HZ](#)
[GCA32A48VDC](#) [GCA63A240VAC50/60HZ](#) [GCA800A500VAC50/60H](#) [GCA95A230VAC50HZ](#) [GCA95A480VAC60HZ](#)
[GCA32A500VAC50/60HZ](#) [GCA63A230VAC50HZ](#) [GCA63A440VAC60HZ](#)