

Table of Specifications

Midi-Contactors



Frame size	
Type	Terminal type
Number of poles	
Rated operational voltage, Ue	
Rated insulation voltage, Ui	
Rated frequency	
Rated impulse withstand voltage, Uimp	
Maximum operating rate in operating cycles per hour(AC3)	
Durability	Mechanical
	Electrical
Current and power	AC-1, Thermal current A
	AC-3 200/240V kW
	380/440V kW
	500/550V kW
	690V kW
UL rating (50/60Hz)	Continuous current A
	Single phase 110~120V HP
	220~240V HP
	200~208V HP
	Three phase 220~240V HP
	440~480V HP
Size and weight	NEMA size
	Weight kg
Auxiliary(standard)	AC control Size(W × H × D) mm
	DC control Size(W × H × D) mm
Auxiliary	Side mount
	Front mount



22AF			
CC9	CC12	CC18	CC22
Screw Only			
3pole			
690V			
690V			
50/60Hz			
6kV			
1800 operations per hour			
15 mil. operations			
2.5 mil. operations			
25	25	32	40
2.5	3.5	4.5	5.5
11	13	18	22
4	5.5	7.5	11
9	12	18	22
4	7.5	7.5	15
7	12	13	20
4	7.5	7.5	15
6	9	9	18
25	25	40	40
0.5	0.75	1	2
1.5	2	3	3
2	3	5	7.5
3	5	7.5	10
5	7.5	10	15
7.5	10	15	20
00	00	0	1
0.34			
45 × 73.5 × 86			
0.51			
45 × 73.5 × 117.7			
GUA1, GUA2, GUA4			
GUA-1			
GUA-2, GUA-4			

40AF	
CC32	CC40
Screw Only	
3pole	
690V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
50	60
7.5	11
32	40
15	18.5
32	40
18.5	22
28	32
18.5	22
20	23
50	60
2	3
5	7.5
7.5	15
10	15
20	30
25	30
1	1
0.55	
69 × 83 × 93	
0.77	
69 × 83 × 120	
GUA-1	
GUA-2, GUA-4	

Note) Minimum conduct current of Auxiliary contactor is DC 17V 5mA.

GT Type Thermal Overload Relays



Type	
Screws clamp terminals	
Rated operational voltage, Ue	
Rated insulation voltage, Ui	
Rated impulse withstand voltage, Uimp	
Trip class	
Setting range	
Size and weight	Weight kg
	Size(W × H × D) mm



GT32	
●	
690V	
690V	
6kV	
10A, 20	
0.1~40A	
0.17	
45 × 75 × 90	

GT32	
●	
690V	
690V	
6kV	
10A, 20	
0.1~40A	
0.17	
45 × 75 × 90	

Table of Specifications



65AF	
CC50	CC65
Screw or Lug	
3pole	
690V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
70	100
15	18,5
55	65
22	30
50	65
30	33
43	60
30	33
28	35
70	100
3	5
10	15
20	25
25	30
40	50
50	60
2	2
1.05	
79 × 106 × 122	
1.3	
79 × 106 × 149	

GUA-1
GUA-2, GUA-4



GT63
•
690V
690V
6kV
10A, 20
4~65A
0.31/0.33
55 × 81 × 100



100AF		
CC75	CC85	CC100
Screw or Lug		
3pole		
690V		
1000V		
50/60Hz		
8kV		
1800 operations per hour		
12 mil. operations		
2 mil. operations		
110	135	160
22	25	30
75	85	105
37	45	55
75	85	105
37	45	55
64	75	85
37	45	45
42	45	65
110	135	160
5	7.5	10
15	15	20
25	30	30
30	40	40
50	60	75
60	75	75
2	3	3
1.93		
94 × 140 × 137		
2.8		
94 × 140 × 174		

GUA-1
GUA-2, GUA-4



GT95
•
690V
690V
6kV
10A, 20
7~100A
0.48/0.5
70 × 97 × 110

Table of Specifications



400AF		
CC265*	CC330*	CC400*
Screw Only		
3pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
5 mil. operations		2.5 mil. operations
1 mil. operations		0.5 mil. operations
300	350	450
80	90	125
265	330	400
147	160	200
265	330	400
147	160	225
225	280	350
160	200	250
185	225	300
300	350	450
-	-	-
-	-	-
75	100	125
100	125	150
200	250	300
200	250	300
5	5	5

800AF		
CC500*	CC630*	CC800*
Screw Only		
3pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
2.5 mil. operations		0.5 mil. operations
580	660	900
147	190	220
500	630	800
265	330	440
500	630	800
265	330	500
400	500	720
300	400	500
380	420	630
580	660	900
-	-	-
-	-	-
150	200	200
200	250	300
400	500	600
400	500	600
6	6	7

9.2
163 × 243 × 198

22.4
285 × 312 × 242

2a2b
-
-

2a2b
-
-



GT400
●
690V
690V
6kV
10A, 20
85~400A
2.6
151 × 171 × 198

GT800
●
690V
690V
6kV
10A, 20
200~800A
11.5
360 × 530 × 212

Specifications are subject to change without notice.

Type Numbering System

Midi-Contactor

CC Magnetic 3-pole Midi-Contactor	9 Amperage Size	BLANK Type 3-pole /4-4-pole	S Terminal Type S - Screw L - Lug (>50A)	A Coil Type A - AC type D - DC type	120 Coil Voltage 24 - 24V 120 - 120V & 600 - 600V	BLANK AC Coil Frequency - 50/60 Hz 50Hz - 50Hz only 60Hz - 60Hz only	BLANK Auxiliary Contact s - standard arrangement NOAUX - no aux. contact (>=32A)
	9 - 9A 12 - 12A 18 - 18A 22 - 22A 32 - 32A 40 - 40A 50 - 50A 65 - 65A 75 - 75A 85 - 85A 100 - 100A						

Overload

GT Bimetallic Midi-Overload	32 Frame Size	BLANK Class class 10 L - class 20	S Terminal Type (Must match contactor number) S - Screw L - Lug (>35A)	0.16A Setting Ranges (Use upper limit in part)
	32 - 9, 12, 18A 22, 32, 40A 65 - 50, 65A 75 - 75, 85, 100A			0.1 ~ 0.16A 0.16 ~ 0.25A 0.25 ~ 0.4A 0.4 ~ 0.63A 0.63 ~ 1A 1 ~ 1.6A 1.6 ~ 2.5A 2.5 ~ 4A 4 ~ 6A 5 ~ 8A 6 ~ 9A 7 ~ 10A 9 ~ 13A 12 ~ 18A 16 ~ 22A 18 ~ 25A 22 ~ 32A 24 ~ 36A 28 ~ 40A 34 ~ 50A 45 ~ 65A 54 ~ 75A 63 ~ 85A 70 ~ 95A 80 ~ 100A (Setting Range Guide)
CGE Electronic Midi Overload	22 Frame Size	3P Protection Direct Mount 22 and 40AF 2P - 2-Pole 3P - 3-Pole 3PR - 3-pole Separate Mount All CGE sizes 2S - 2-Pole 3S - 3-Pole 3SR - 3-Pole	22A Setting Range (Use upper limit in part) CGE22 0.3 ~ 1.5A 1 ~ 5A 4.4 ~ 22A CGE40 4 ~ 20A 8 ~ 40A CGE80 16 ~ 80A	CGE22 CGE40 CGE80
	22 - 9, 12, 18, 22A 40 - 32, 40A 80 - 50, 65, 75, 85A			22 ~ 32A 24 ~ 36A 28 ~ 40A 34 ~ 50A 45 ~ 65A 54 ~ 75A 63 ~ 85A 70 ~ 95A 80 ~ 100A (Setting Range Guide)
		Tunnel Type 22 and 40AF 2T - 2-Pole 3T - 3-Pole 3TR - 3-Pole		GT32 GT65 GT95

Optional Accessories

Auxiliary contact unit



Version	Contact composition
GUA1 Side mount	11 1NO+1NC
GUA2 Front mount(2P)	20 2NO
GUA4 Front mount(4P)	02 2NC
	40 4NO
	31 3NO+1NC
	22 2NO+2NC
	13 1NO+3NC
	04 4NC

Surge absorber



Composition and voltage
1 Varistor+RC AC/DC 24~48V
2 Varistor+RC AC/DC 100~125V
3 Varistor+RC AC/DC 200~240V
4 Varistor+RC AC 380~440V
5 Varistor+RC AC 24~48V
6 Varistor+RC AC 100~125V
11 Varistor AC 200~240V
12 Varistor DC 24~48V
13 Varistor DC 100~125V
14 Varistor DC 200~220V
22 RC AC 100~125V

Note) See page 52 for details.

Interlock unit



Contact composition
02 2NC

Wire kit for Interlocking



Frame size
22 22AF
32 32AF
63 63AF
95 95AF

Separate mounting unit (For relay)



Frame size
32 32AF
63 63AF
95 95AF
150 150AF

Remote reset unit (For relay)

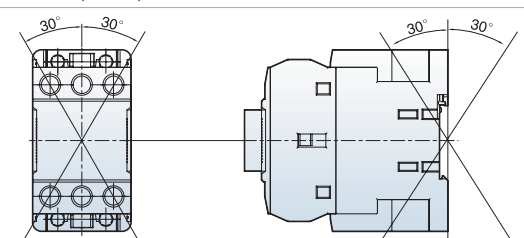


Cable length
16 400
20 500
24 600

Environment / Connections



Environment

Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, K60947
Certifications	CE, UL
Rated insulation voltage (Ui)	1000V
Rated impulse withstand voltage (Uimp)	8kV
Degree of protection	IP20 (Conforming to IEC60529)
Ambient air temperature	Storage: -50° C ~ +80° C Operation: -5° C ~ +60° C
Operating altitude	3000m (8900ft)
Operating positions	
Shock resistance (1/2 sine wave =11ms)	Opened: 8G Closed: 10G
Vibration resistance (Conforming to IEC68-2-6) (5...300 Hz)	Opened: 2G Closed: 4G
Flame resistance	Conforming to UL 94: Vo Conforming to IEC 695-2-1: 960° C

Connections

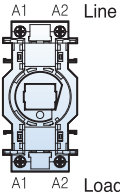
Frame	Wire type	Main Terminal Size	Wire types						Torque	
			(AWG / mm ²)			mm(max)			[lb-in]	[Nm]
CC9		M4	18~10 / 1~6	18~10 / 1~6	18~10 / 1~6	9.6	20	2.25		
CC12			18~10 / 1~6	16~10 / 1~6	16~10 / 1~6					
CC18			18~10 / 1~6	16~8 / 1.5~10	16~8 / 1.5~10					
CC22		M5	18~10 / 1~6	14~8 / 2.5~10	14~8 / 2.5~10	12.8	35	4		
CC32			18~10 / 1~6	12~8 / 2.5~10	12~8 / 2.5~10					
CC40		M6	-	10~4 / 6~25	10~4 / 6~25	14	35	4		
CC50			-	8~3 / 10~35	8~3 / 10~35					
CC65		M8	-	8~2 / 10~35	8~2 / 10~35	17	45	5.1		
CC75			-	8~1/0 / 10~50	8~1/0 / 10~50					
CC85		M8	-	8~2/0 / 10~70	8~2/0 / 10~70	24.5	80	9.1		
CC100			-	3~2/0 / 35~70	3~2/0 / 35~70					
CC130		M8	-	3~4/0 / 35~95	3~4/0 / 35~95	24.5	80	9.1		
CC150			-	3~4/0 / 35~95	3~4/0 / 35~95					
CC9~150		M4	20~14 / 0.5~2.5	18~12 / 0.75~2.5	18~12 / 0.75~2.5	7.6	15	1.75		
CC185		M10	-	1~4/0 / 50~95	1~4/0 / 50~95	25	130	14.7		
CC225			-	1/0~300 / 50~150	1/0~300 / 50~150					
CC265		M12	-	3/0~500 / 95~240	3/0~500 / 95~240	30	200	22.6		
CC330			-	4/0~500 / 95~240	4/0~500 / 95~240					
CC400		M16	-	350~700 / 185~185x2	350~700 / 185~185x2	40	500	26.5		
CC500			-	350~800 / 185~240x2	350~800 / 185~240x2					
CC630		M16	-	600~2000	-	40	500	26.5		
CC800			-	1700~Busbar	-					
CC185~800		M4	20~14 / 0.5~2.5	18~12 / 0.75~2.5	18~12 / 0.75~2.5	7.6	15	1.75		

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Control Coil Characteristics



Frame size		22AF	40AF	65AF	100AF	150AF
Type		CC9	CC32	CC50	CC75	CC130
		CC12	CC40	CC65	CC85	CC150
		CC12			CC100	
		CC22				
AC coil						
Control voltage	[Uc]	24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V				24, 48, 110,
	50Hz [V]	24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V				220, 300,
	60Hz [V]	24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V				400, 500
Voltage limit	[Uc]					
	Pick-up	85 ~110% (50Hz)				
	Drop-out	85 ~110% (60Hz)				
Coil consumption at 20°C		30 ~ 60%				
AC 220V	Inrush [VA]	58/56	53/50	110/104	229/216	108/104
	Holding [VA]	9.0/6.0	12.0/9.0	13.0/10.0	17.0/13.0	18.0/21.0
50/60Hz						
Heat dissipation	[W]	2.1/1.5	2.7/2.2	2.8/2.4	5.4/4.7	2.7/3.6
Operating time						
	Closing [ms]	12 ... 22	12 ... 22	12 ... 22	15 ... 30	20 ... 40
	Opening [ms]	4 ... 19	4 ... 19	4 ... 19	10 ... 30	60 ... 70
DC coil						
Control voltage	[Uc]	12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250				24, 48, 110, 220
Voltage limit	[Uc]					
	Pick-up	70 ~ 110%				
	Drop-out	10 ~ 30%				
Coil consumption at 20°C						
DC 110V	Inrush [W]	9	7	9	18	213
	Holding [W]	9	7	9	18	7.5
Time constant (L/R)	[ms]	28	28	65	75	
Operating time						
	Closing [ms]	35 ... 50	50 ... 65	50 ... 65	100 ... 120	70 ... 80
	Opening [ms]	4 ... 19	4 ... 19	4 ... 19	10 ... 25	60 ... 70



Note) A1(A2) in line side is internally connected to A1(A2) in load side.

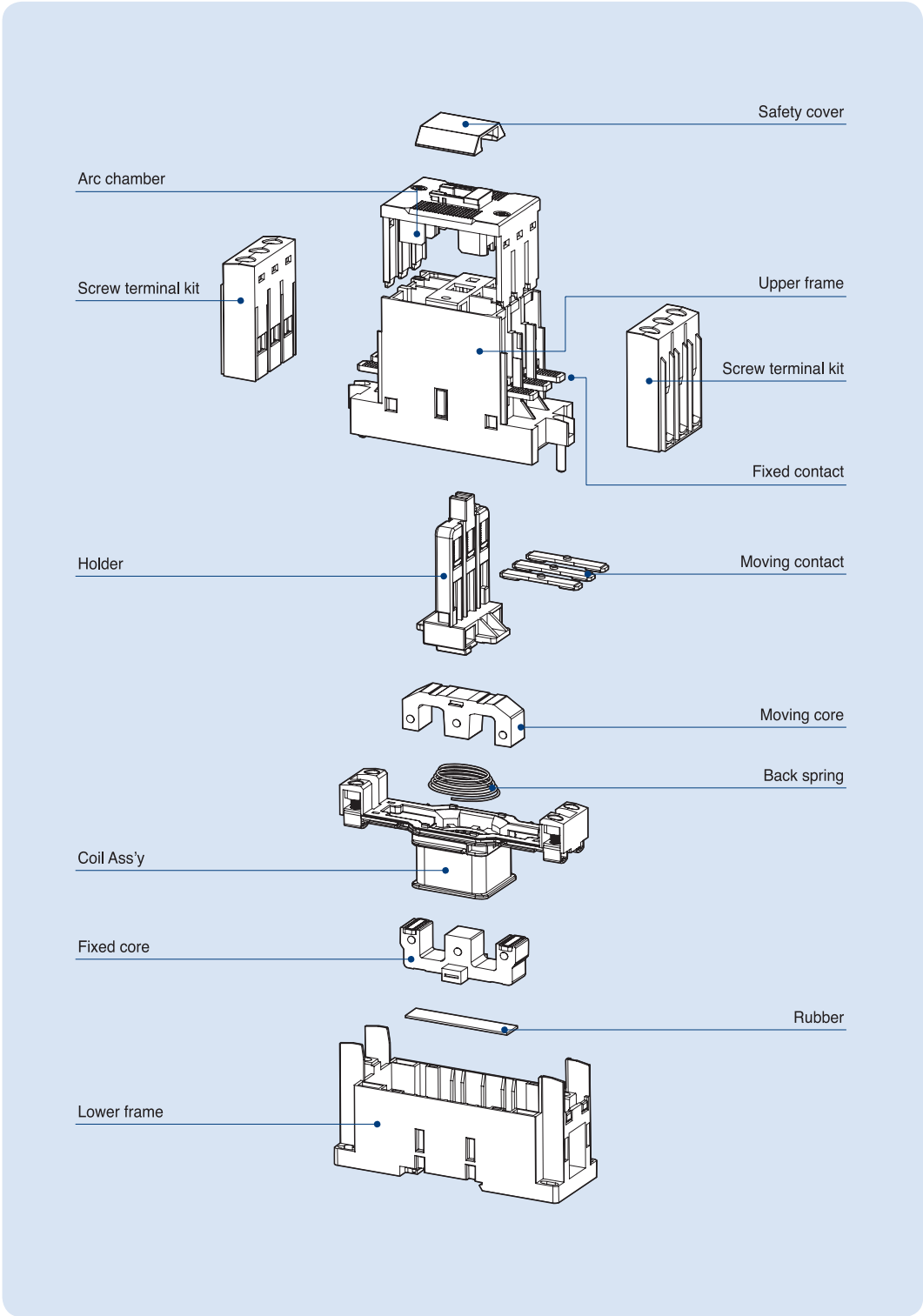
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Control Coil Characteristics



Frame size	225AF	400AF	800AF
Type	CC185 CC225	CC265 CC330 CC400	CC500 CC630 CC800
AC/DC common coil			
Control voltage [Uc]			
AC/DC	24/24	-	-
AC/DC	48/48	-	100/100
AC/DC	100~240/100~220	100~240/100~220	200/200
AC	300	300	300
AC	400	400	400
AC	500	500	500
Voltage limit [Uc]			
Pick-up		86~110%	
Drop-out		30~60%	
Coil consumption at 20°C			
AC 220V Inrush [VA]	380	571	1000
50/60Hz Holding [VA]	11.6	14	29
Heat dissipation [W]	4.7	5	7.8
Operating time			
Closing [ms]	70	55	75
Opening [ms]	70	55	75

Internal Structure



Contactors (150AF)

Description

- 3-pole(NO) main contact
- Finger proof design
- DIN rail or screw mountable
- AC or DC control in the same physical size
- Front/side mountable accessories available
- Direct mountable overload relay available
- 2NO2NC Auxiliary contacts built-in as standard

Rating



CC150

Contactor type			CC130		CC150		
			kW	A	kW	A	
AC duty	AC3	200/240V	37	130	45	150	
		380/440V	60	130	75	150	
		500/550V	60	90	70	100	
		690V	55	60	55	60	
	AC4	200/240V	22	93	30	120	
		380/440V	45	90	55	110	
	AC1		-	160	-	210	
DC1 duty (L/R=1ms)	2-pole	24V	-	120	-	150	
		in series	48V	-	100	-	120
		110V	-	80	-	100	
	3-pole	24V	-	120	-	150	
		in series	48V	-	120	-	150
		110V	-	100	-	150	
DC2, 4 duty (L/R=15ms)	2-pole	24V	-	120	-	150	
		in series	48V	-	60	-	100
		110V	-	40	-	80	
	3-pole	24V	-	120	-	150	
		in series	48V	-	90	-	130
		110V	-	80	-	120	
Directly mountable Overload relay			GT150				
Conductor size (solid, stranded) (the max. number of conducts: 2)	AWG		3~00		3~00		
	mm ²		35~70		35~95		
Conductor type			65/75°C Cu-wire only				



Coil Voltage

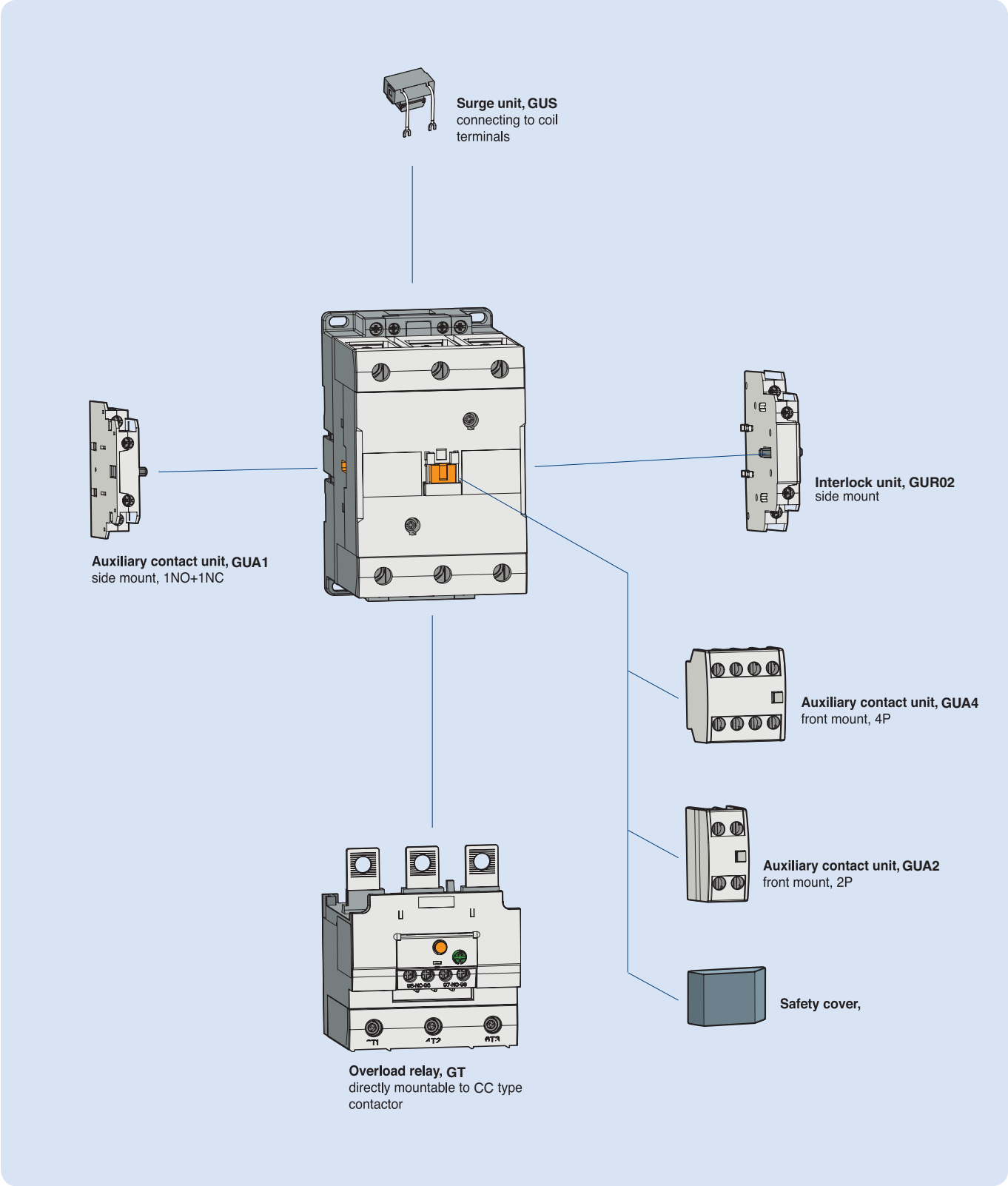
AC	50/60Hz	24, 48, 110, 220, 300, 400, 500V
DC	DC	24, 48, 110, 220V

Certification

- CE(IEC)
- UL508

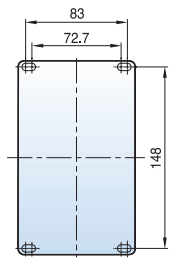
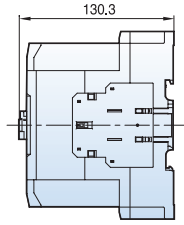
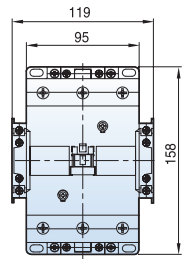
Contactors (150AF)

Accessories



Contactors (150AF ~ 800AF)

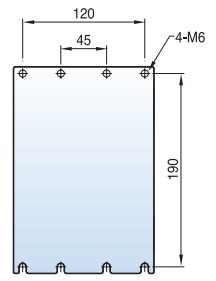
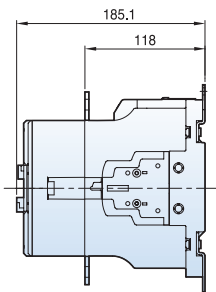
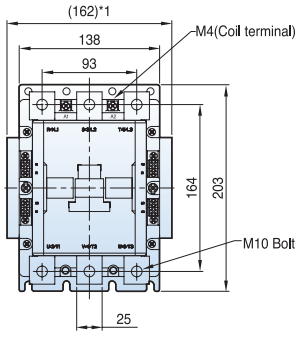
CC130 ~ CC150
2NO2NC aux



[mm]

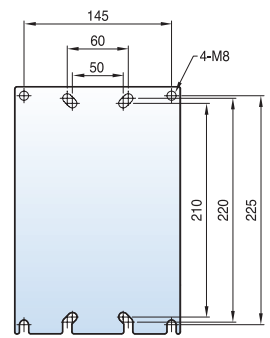
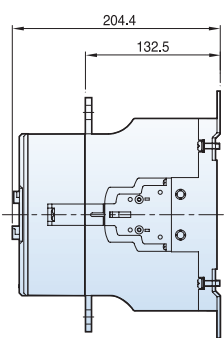
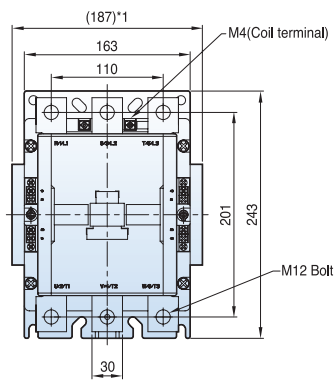
2.4kg

CC185 ~ CC225
2NO2NC aux



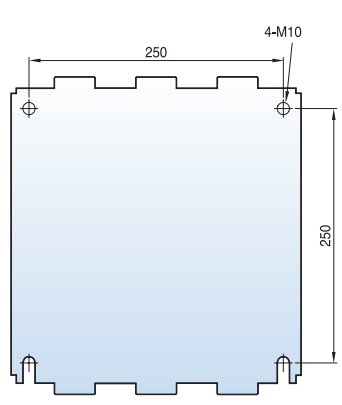
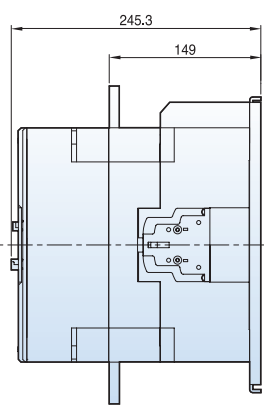
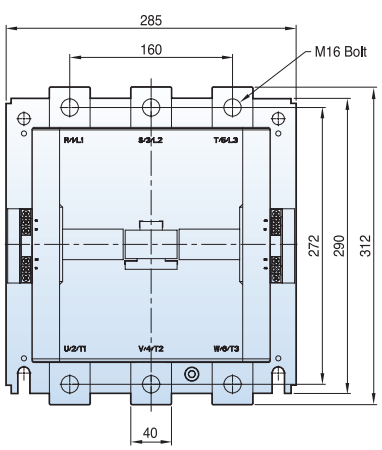
5.4kg

CC265 ~ CC400
2NO2NC aux



9.2kg

CC500 ~ CC800
2NO2NC aux

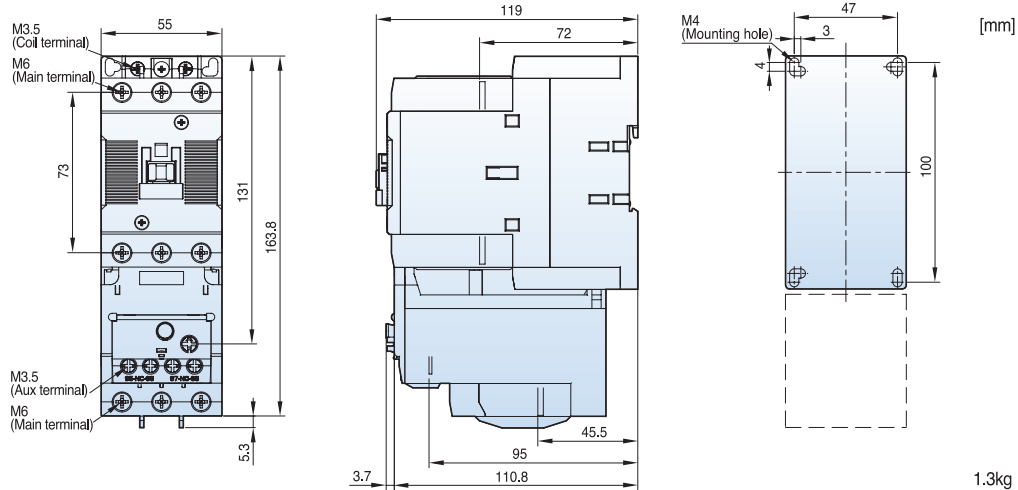


22.4kg

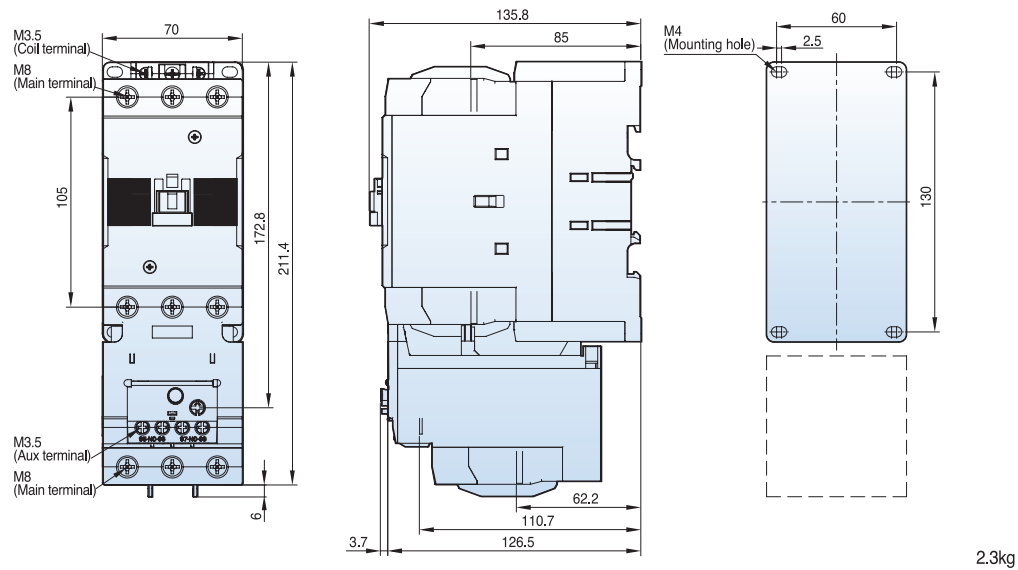
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Motor Starters (65AF ~ 150AF)

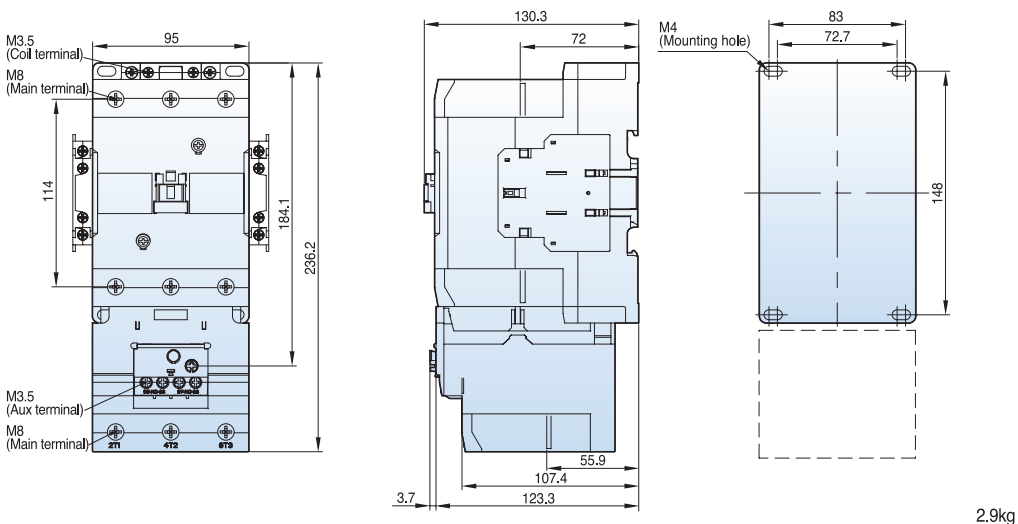
**CC50 ~ CC65
with GT63
shown with no
aux contact**



**CC75 ~ CC100
with GT95
shown with no
aux contact**

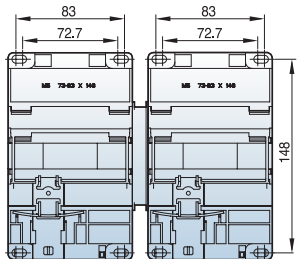
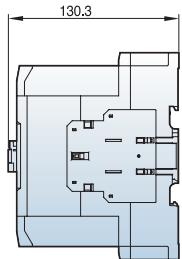
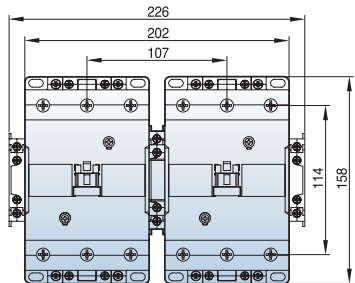


**CC130 ~ CC150
with GT150
shown with no
aux contact**



Reversing Contactors and Starters (150AF ~ 800AF)

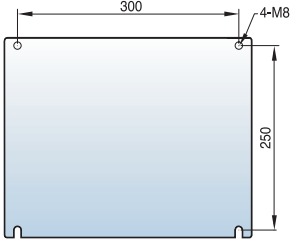
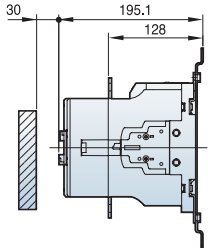
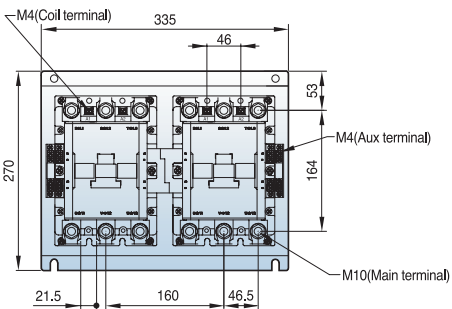
CC130 ~ CC150
AC coil
reversing combination
shown with aux contacts



(mm)

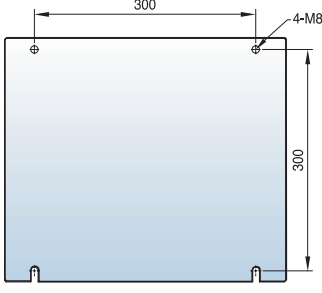
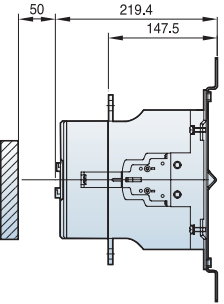
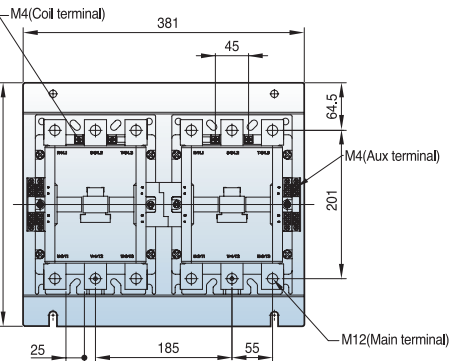
4.3kg

CC185 ~ CC225
reversing combination
shown with aux contacts



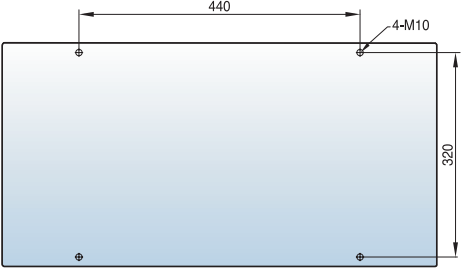
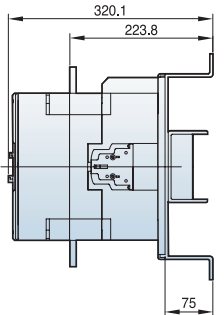
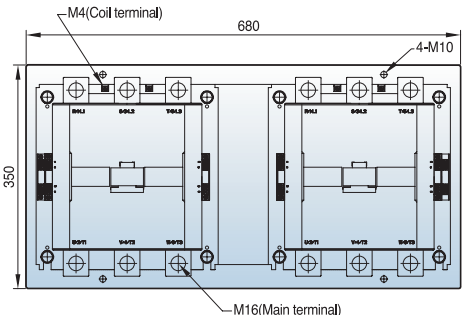
12.9kg

CC265 ~ CC400
reversing combination
shown with aux contacts



21.4kg

CC500 ~ CC800
reversing combination
shown with aux contacts



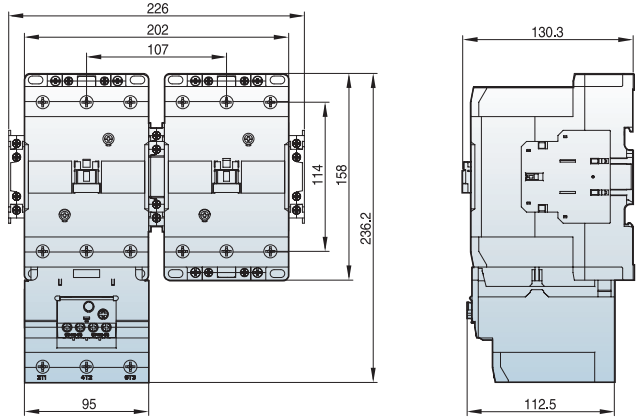
60kg

Specifications are subject to change without notice.

Reversing Contactors and Starters (150AF ~ 400AF)

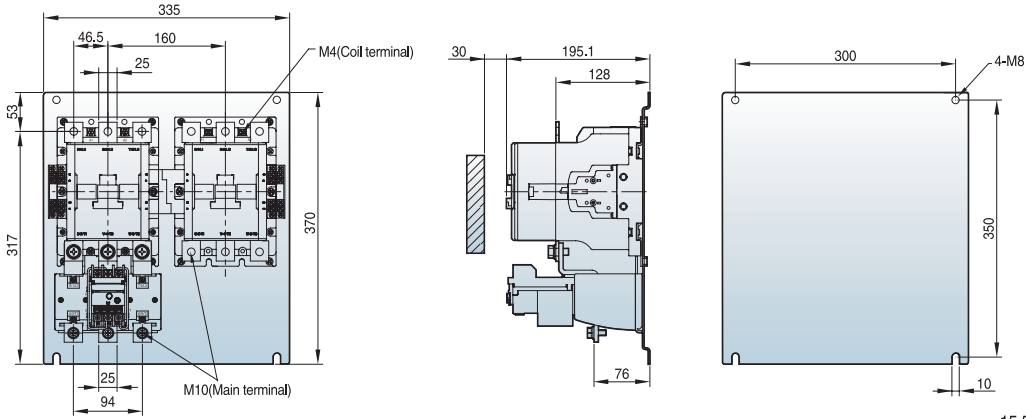
[mm]

CC130 ~ CC150
AC coil
reversing
combination
shown with GT150
and aux contacts



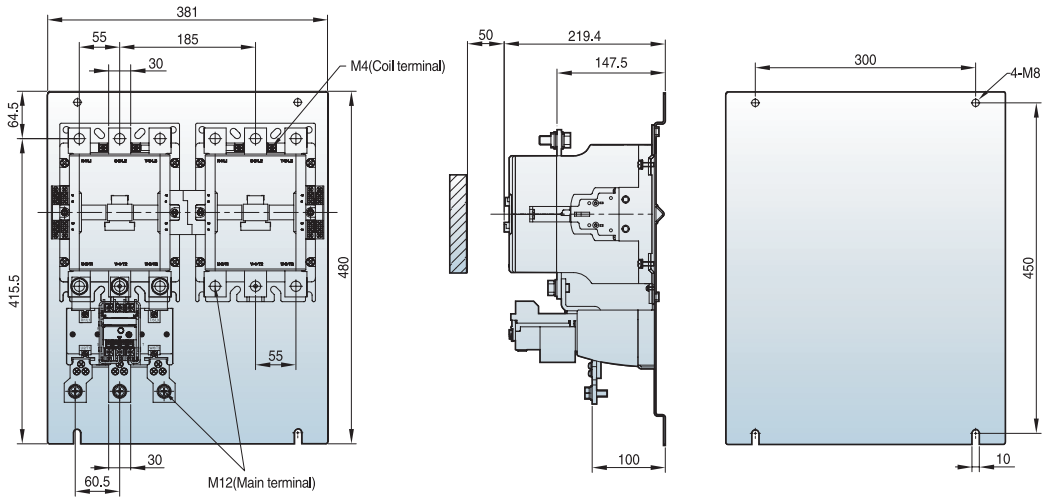
5kg

CC185 ~ CC225
AC coil
reversing
combination
shown with GT225
and aux contacts



15.5kg

CC265 ~ CC400
AC coil
reversing
combination
shown with GT400
and aux contacts



23kg

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