

Frame size		9A		12A		18A		22A																																					
3-pole Contactors For further technical information see pages 8-9.		 includes AU-1 auxiliary switch, (1 N.O. / 1 N.C.)																																											
Types	AC coil DC coil	GMC-9 GMD-9		GMC-12 GMD-12		GMC-18 GMD-18		GMC-22 GMD-22																																					
Ratings / IEC60947-4		kW	A	kW	A	kW	A	kW	A																																				
AC1		25		25		40		40																																					
AC3	200/240V	2.5	11	3.5	13	4.5	18	5.5	22																																				
	380/440V	4	9	5.5	12	7.5	18	11	22																																				
	500/550V	4	7	7.5	12	7.5	13	15	22																																				
	690V	4	5	7.5	9	7.5	9	15	18																																				
Ratings / UL508		hp	A	hp	A	hp	A	hp	A																																				
continuous current		20		25		30		32																																					
single phase	115V	0.5		0.5		1		2																																					
	230V	1		2		3		3																																					
three phase	200V	2		3		5		7																																					
	230V	2		3		5		7.5																																					
	460V	5		7.5		10		10																																					
	575V	7.5		10		15		15																																					
NEMA size		00		00		0		0																																					
4-pole Contactors For further technical information visit altechcorp.com.																																													
Types	AC coil DC coil	GMC-9/4 GMD-9/4		GMC-12/4 GMD-12/4		GMC-18/4 GMD-18/4		GMC-22/4 GMD-22/4																																					
AC1(A)		20		20		25		32																																					
Available coil voltages		AC: 24, 42, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V DC: 12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V <i>Ordering Example: GMC-9-AC120V (see also page 6)</i>																																											
Additional Auxiliary Contacts		AU-2 2-pole Front mount AU-4 4-pole Front mount AU-1 2-pole Side mount <table><tr><td>Configuration</td><td>Part No.</td><td>Configuration</td><td>Part No.</td><td>Configuration</td><td>Part No.</td></tr><tr><td>2 N.O.</td><td>AU-2-20</td><td>4 N.O.</td><td>AU-4-40</td><td>1 N.O. / 1 N.C.</td><td>AU-1</td></tr><tr><td>2 N.C.</td><td>AU-2-02</td><td>3 N.O. / 1 N.C.</td><td>AU-4-31</td><td></td><td></td></tr><tr><td>1 N.O. / 1 N.C.</td><td>AU-2-11</td><td>2 N.O. / 2 N.C.</td><td>AU-4-22</td><td></td><td></td></tr><tr><td></td><td></td><td>1 N.O. / 3 N.C.</td><td>AU-4-13</td><td></td><td></td></tr><tr><td></td><td></td><td>4 N.C.</td><td>AU-4-04</td><td></td><td></td></tr></table>								Configuration	Part No.	Configuration	Part No.	Configuration	Part No.	2 N.O.	AU-2-20	4 N.O.	AU-4-40	1 N.O. / 1 N.C.	AU-1	2 N.C.	AU-2-02	3 N.O. / 1 N.C.	AU-4-31			1 N.O. / 1 N.C.	AU-2-11	2 N.O. / 2 N.C.	AU-4-22					1 N.O. / 3 N.C.	AU-4-13					4 N.C.	AU-4-04		
Configuration	Part No.	Configuration	Part No.	Configuration	Part No.																																								
2 N.O.	AU-2-20	4 N.O.	AU-4-40	1 N.O. / 1 N.C.	AU-1																																								
2 N.C.	AU-2-02	3 N.O. / 1 N.C.	AU-4-31																																										
1 N.O. / 1 N.C.	AU-2-11	2 N.O. / 2 N.C.	AU-4-22																																										
		1 N.O. / 3 N.C.	AU-4-13																																										
		4 N.C.	AU-4-04																																										
Overload Relays																																													
Bimetallic style Type GT		GT-22 Setting ranges (A) 0.1 - 0.16 0.16 - 0.25 0.25 - 0.4 0.4 - 0.63 0.63 - 1 1 - 1.6 1.6 - 2.5 2.5 - 4 4 - 6 5 - 8 6 - 9 7 - 10 9 - 13 12 - 16 16 - 22 AZ-22H Base for separate mounting																																											
Class 10A	Differential	GTK-22																																											
	Non-differential (3-heater)	GTH-22/3																																											
	Non-differential (2-heater)	GTH-22																																											
Class 20	Differential	GTK-22/L																																											

32A		40A		50A		65A		75A		85A	
		<i>includes 2 AU-1 auxiliary switches, (2 N.O. / 2 N.C.)</i>						<i>includes 2 AU-1 auxiliary switches, (2 N.O. / 2 N.C.)</i>			
GMC-32		GMC-40		GMC-50		GMC-65		GMC-75		GMC-85	
GMD-32		GMD-40		GMD-50		GMD-65		GMD-75		GMD-85	
kW	A	kW	A	kW	A	kW	A	kW	A	kW	A
50		60		80		100		110		135	
7.5	32	11	40	15	55	18.5	65	22	75	25	85
15	32	18.5	40	22	50	30	65	37	75	45	85
18.5	28	22	32	30	43	33	60	37	64	45	75
18.5	20	22	23	30	28	33	35	37	42	45	45
hp	A	hp	A	hp	A	hp	A	hp	A	hp	A
45		50		70		80		90		100	
2		3		3		5		5		7.5	
5		5		7.5		10		15		15	
7.5		10		10		15		20		25	
10		10		15		20		25		30	
20		25		30		40		50		50	
20		25		30		40		50		50	
1		1		2		2		2		3	
											
GMC-32/4		GMC-40/4		GMC-50/4		GMC-65/4		GMC-75/4		GMC-85/4	
GMD-32/4		GMD-40/4		GMD-50/4		GMD-65/4		GMD-75/4		GMD-85/4	
50		60		80		100		110		135	
AC: 24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V											
DC: 12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V											
Ordering Example: GMC-32-AC120V (see also page 6)											
		AU-2				AU-4				AU-1	
2-pole Front mount				4-pole Front mount				2-pole Side mount			
Configuration	Part No.	Configuration	Part No.	Configuration	Part No.	Configuration	Part No.	Configuration	Part No.	Configuration	Part No.
2 N.O.	AU-2-20	4 N.O.	AU-4-40	1 N.O. / 1 N.C.	AU-1						
2 N.C.	AU-2-02	3 N.O. / 1 N.C.	AU-4-31								
1 N.O. / 1 N.C.	AU-2-11	2 N.O. / 2 N.C.	AU-4-22								
		1 N.O. / 3 N.C.	AU-4-13								
		4 N.C.	AU-4-04								
		GT-40				GT-85				AZ-85H	
Setting ranges (A)		Base for separate mounting		Setting ranges (A)		Base for separate mounting		Setting ranges (A)		Base for separate mounting	
4 - 6	12 - 18			7 - 10	28 - 40			7 - 10	28 - 40		
5 - 8	16 - 22			9 - 13	34 - 50			9 - 13	34 - 50		
6 - 9	18 - 26			12 - 18	45 - 65			12 - 18	45 - 65		
7 - 10	24 - 36			16 - 22	54 - 75			16 - 22	54 - 75		
9 - 13	28 - 40			18 - 26	63 - 85			18 - 26	63 - 85		
				24 - 36				24 - 36			
GTK-40				GTK-85				GTK-85			
GTH-40/3				GTH-85/3				GTH-85/3			
GTH-40				GTH-85				GTH-85			
GTK-40/L				GTK-85/L				GTK-85/L			

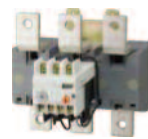
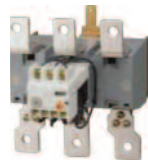
Frame size		100A		125A		150A	
3-pole Contactors For further technical information see pages 10-11.		 includes 2 AU-100 auxiliary switches, (2 N.O. / 2 N.C.)		 includes 2 AU-100 auxiliary switches, (2 N.O. / 2 N.C.)			
Types	AC/DC common coil	GMC-100		GMC-125		GMC-150	
Ratings / IEC60947-4		kW	A	kW	A	kW	A
AC1			150		150		200
AC3	200/240V	30	105	37	125	45	150
	380/440V	55	105	60	120	75	150
	500/550V	55	85	60	90	90	140
	690V	55	65	60	70	90	100
Ratings / UL508		hp	A	hp	A	hp	A
continuous current			160		160		210
single phase	115V	7.5		10		15	
	230V	15		20		25	
three phase	200V	30		40		40	
	230V	30		40		50	
	460V	60		75		100	
	575V	60		75		100	
NEMA size		3		3		4	
4-pole Contactors For further technical information visit altechcorp.com.							
Types	AC/DC common coil	GMC-100/4		GMC-125/4		GMC-150/4	
AC1(A)		150		155		200	
Available nominal coil voltages (AC 50/60Hz); (DC)		AC: 24 (24-25), 48 (48-50), 100/200 (100-240), 300 (265-347), 400 (380-450), 500V (440-575) DC: 24, 48, 100/200V (100-220) Ordering Example: GMC-100-AC100/200V (see also page 6)					
Additional Auxiliary Contacts		 AU-100 1NO+1NC, Side mount					

Overload Relays

Bimetallic style Type GT			Setting ranges (A) 34 - 50 39 - 57 43 - 65 54 - 80 65 - 100 85 - 125		Setting ranges (A) 34 - 50 39 - 57 43 - 65 54 - 80 65 - 100 85 - 125 100 - 150
		GT- 100		GT- 150	
Class 10A	Differential	GTK-100		GTK-150	
	Non-differential (3-heater)	GTH-100/3		GTH-150/3	
	Non-differential (2-heater)	GTH-100		GTH-150	
Class 20	Differential	GTK-100/L		GTK-150/L	

Contactors (100 to 800A)

180A		220A		300A		400A		600A		800A	
		<i>includes 2 AU-100 auxiliary switches, (2 N.O. / 2 N.C.)</i>				<i>includes 2 AU-100 auxiliary switches, (2 N.O. / 2 N.C.)</i>				<i>includes 2 AU-100 auxiliary switches, (2 N.O. / 2 N.C.)</i>	
GMC-180		GMC-220		GMC-300		GMC-400		GMC-600		GMC-800	
kW	A	kW	A	kW	A	kW	A	kW	A	kW	A
230		260		350		420		660		900	
55	180	75	250	90	300	125	400	190	630	220	800
90	180	132	250	160	300	220	400	330	630	440	800
110	180	132	200	160	250	225	350	330	500	550	720
110	120	132	150	200	220	250	300	330	420	500	630
hp	A	hp	A	hp	A	hp	A	hp	A	hp	A
230		275		350		450		660		900	
15		15									
30		40									
60		60		100		125		150		250	
60		75		100		150		200		300	
125		150		200		300		400		600	
125		150		200		300		400		600	
4		4		5		5		6		7	
											
GMC-180/4		GMC-220/4		GMC-300/4		GMC-400/4		GMC-600/4		GMC-800/4	
230		260		350		420		660		800	
AC: 100/200 (100-240), 300 (265-347), 400 (380-450), 500V (440-575) DC: 100/200V (100-220) <i>Ordering Example: GMC-180-AC100/200V (see also page 6)</i>								AC: 100 (100-127), 200 (200-240), 300 (265-347), 400 (380-450), 500V (440-575) DC: 100 (100-110), 200V (200-220)			
				 AU-100 <i>1NO+1NC, Side mount</i>							

 GT- 220	Setting ranges (A) 65 - 100 85 - 125 100 - 150 120 - 180 160 - 240	 GT- 400	Setting ranges (A) 85 - 125 100 - 150 120 - 180 160 - 240 220 - 300 260 - 400	 GT- 800	Setting ranges (A) 220 - 300 260 - 400 400 - 600 520 - 800
GTK-220		GTK-400		GTK-600	
GTH-220/3		GTH-400/3		GTH-600/3	
GTH-220		GTH-400		GTH-600	
GTK-220/L		GTK-400/L		GTK-600/L	

3NO main contacts
1 auxiliary contact*

For further technical
information see page 13.



Screw clamp type



Fast-on type



Cage clamp type



Solder pin type

Frame size		6A		9A		12A		16A		
STANDARD	Screw clamp type	AC coil	GMC-6M		GMC-9M		GMC-12M		GMC-16M	
		DC coil	GMD-6M		GMD-9M		GMD-12M		GMD-16M	
OPTIONAL	Fast-on type	AC coil	GMC-6MF		GMC-9MF		GMC-12MF		GMC-16MF	
		DC coil	GMD-6MF		GMD-9MF		GMD-12MF		GMD-16MF	
Cage clamp type	AC coil	GMC-6MC		GMC-9MC		GMC-12MC		GMC-16MC		
	DC coil	GMD-6MC		GMD-9MC		GMD-12MC		GMD-16MC		
Solder pin type	AC coil	GMC-6MP		GMC-9MP		GMC-12MP		GMC-16MP		
	DC coil	GMD-6MP		GMD-9MP		GMD-12MP		GMD-16MP		
Ratings / IEC60947-4		kW	A	kW	A	kW	A	kW	A	
AC1		20		20		20		20		
AC3	200/240V	1.5	7	2.2	9	3	12	4	15	
	380/440V	2.2	6	4	9	5.5	12	7.5	16	
	500/550V	3	5	3.7	6	4	7	5.5	9	
	690V	3	4	4	5	4	5	4	5	
Ratings / UL508		hp	A	hp	A	hp	A	hp	A	
continuous current		20		25		30		32		
single phase	115V	0.5		0.5		1		2		
	230V	1		2		3		3		
three phase	200V	2		3		5		7		
	230V	2		3		5		7.5		
	460V	5		7.5		10		10		
	575V	7.5		10		15		15		
NEMA size		00		00		00		0		
Available coil voltages		AC 50/60Hz: 24, 36, 42, 48, 110, 115, 120, 127, 200/208, 220, 220/230, 230/240, 256, 277, 380/400, 400, 440, 480, 500, 550, 600V (60Hz) DC: 12, 20, 24, 36, 42, 48, 60, 72, 110, 120, 125, 220, 240, 250V <i>Ordering Example: GMC-6M-10-AC120V (see also page 6)</i>								

Additional Auxiliary Contacts

2-pole, Front mount
4-pole, Front mount
2-pole, Side mount

Screw clamp type

AU-2M



AU-4M



AU-1M



Fast-on type

AU-2MF



AU-4MF



AU-1MF



Cage clamp type

AU-2MC



AU-4MC



AU-1MC



Solder pin type



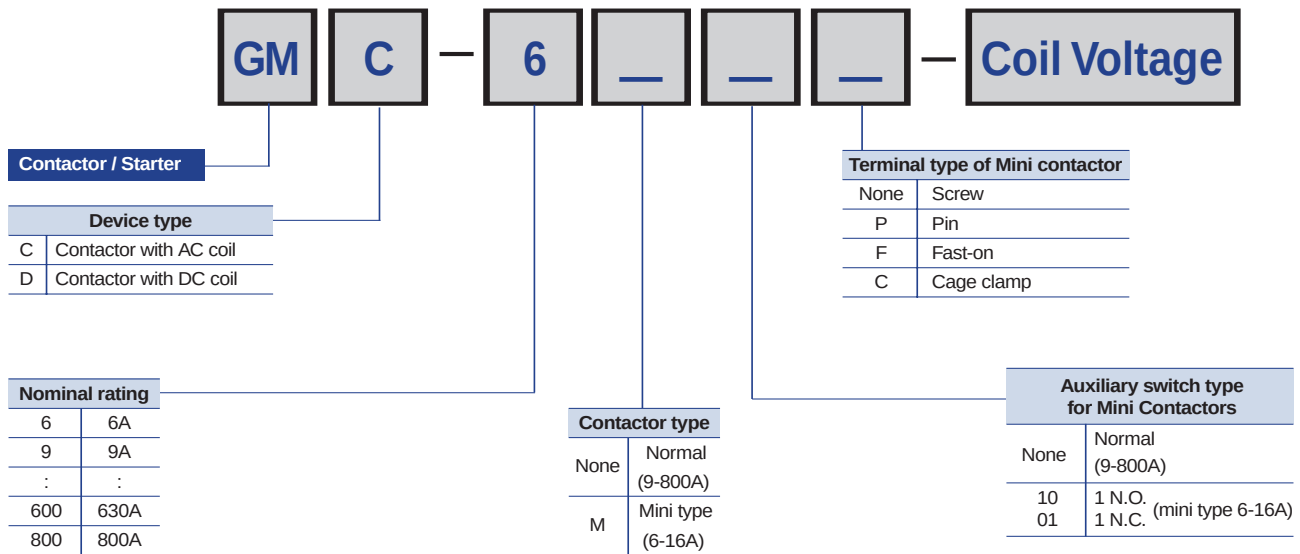
AU-1MP

Overload Relays

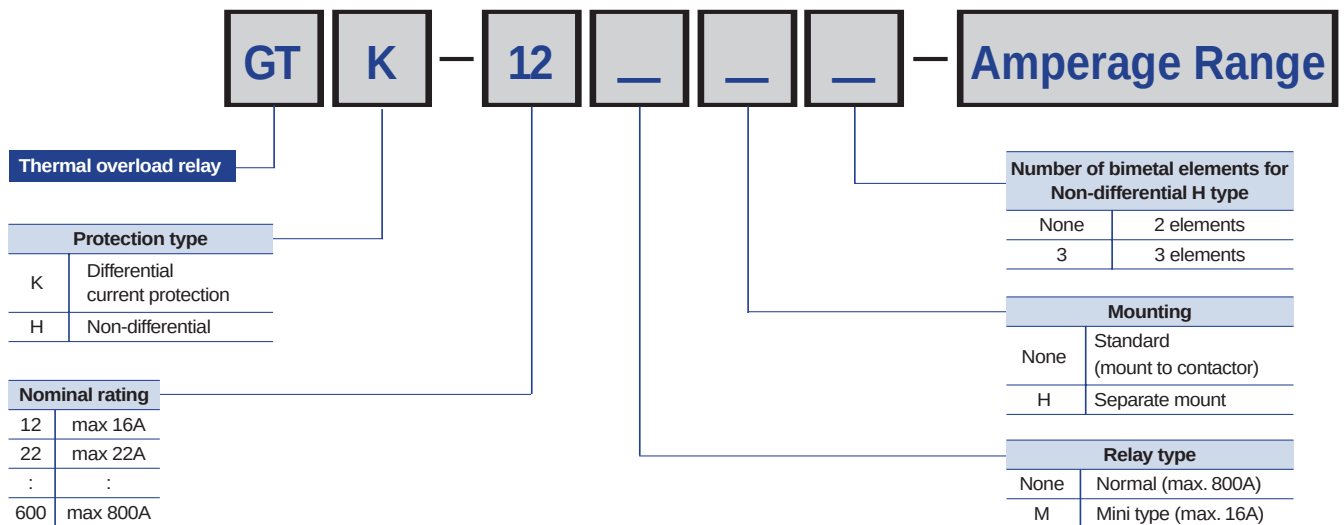
Bimetallic style Type GT Class 10A	 GT-12M	Setting ranges (A) 0.1 - 0.16 0.16 - 0.25 0.25 - 0.4 0.4 - 0.63 0.63 - 1 1 - 1.6 1.6 - 2.5 2.5 - 4	4 - 6 5 - 8 6 - 9 7 - 10 9 - 13 12 - 16	 AZ-12H Base for separate mounting
Differential				GTK-12M
Non-differential (3-heater)				GTH-12M/3
Non-differential (2-heater)				GTH-12M

* See page 6 for how to specify the type of auxiliary switch (N.O. or N.C.).

Contactors Numbering System



Thermal Overload Relay



Other devices / accessories are available.

Consult Altech Corp.® for more information.

2-pole AC Contactors, Definite Purpose

For further technical information see page 14.

Description

- Two normally open main contacts
- Screw clamp or fast-on connections
- Small and light design suitable for use in air conditioners, heaters, refrigerators, etc.
- Screw mountable
- N.O. auxiliary contact
- AC control voltage



Selection

Type	AC3 ratings			AC4 ratings			AC1 I_{th}	Making current	Breaking current
	220~ 240V	380~ 440V	500~ 550V	220~ 240V	380~ 440V	500~ 550V			
SMC-20P2	20A	17A	14A	18A	13A	10A	30A	120A	20A
SMC-25P2	25A	21A	17A	20A	14A	12A	35A	150A	25A
SMC-30P2	30A	23A	21A	22A	20A	14A	40A	180A	30A

Connection style

Terminal code	Main terminal	Coil terminal	Remarks
TSBS	Screw clamp	Screw clamp	
TSBQ		Fast-on	
TQBS	Fast-on(Quick connect)	Screw clamp	not available for SMC-30P2
TQBQ		Fast-on(Quick connect)	

Endurance

Mechanical lifetime		2 mil. Operations
Electrical lifetime	at AC3	0.2 mil. Operations (1200 operations/h)
	at AC4	0.015 mil. Operations (600 operations/h)

Contactors coil voltage, AC 50/60Hz

24, 48-50, 110/110-120, 208-220/208-240V

Ordering information

Specify type, terminal code and coil voltage

Example : SMC-25P2, TSBQ, AC110V 50Hz



3-pole Contactors / AC Coil

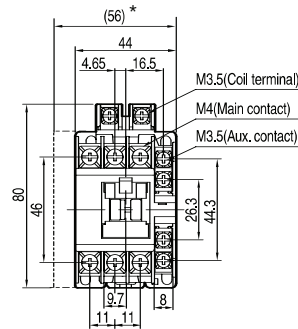
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

GMC-9

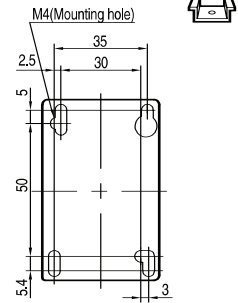
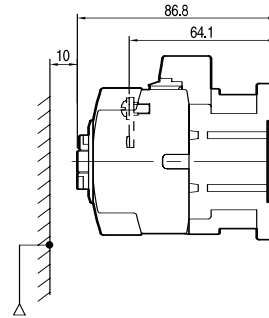
GMC-12

GMC-18

GMC-22



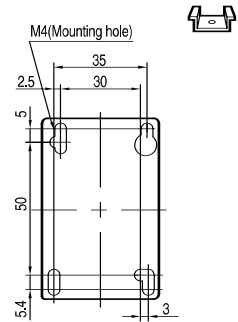
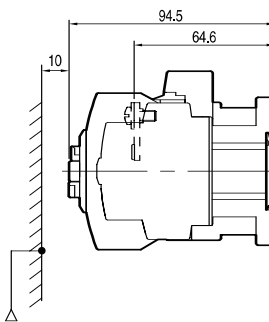
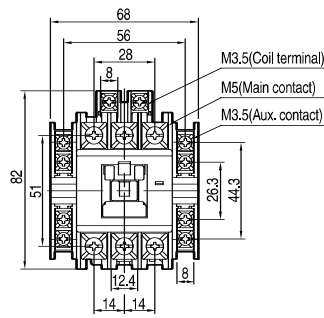
*Optional auxiliary contact unit (side mount type)



Weight: GMC-9 & 12: 0.33kg (0.73 lbs.)
GMC-18 & 22: 0.37kg (0.82 lbs.)

GMC-32

GMC-40



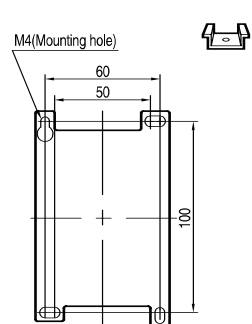
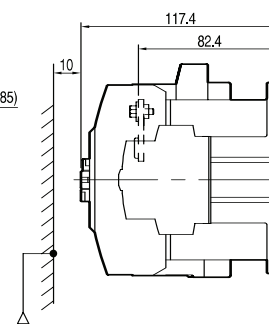
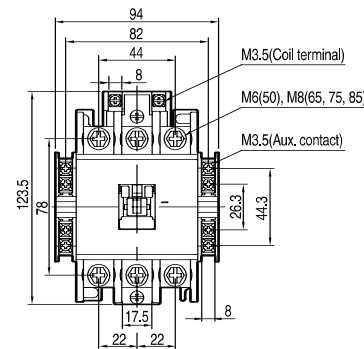
Weight GMC-32 & 40: 0.45kg (0.99 lbs.)

GMC-50

GMC-65

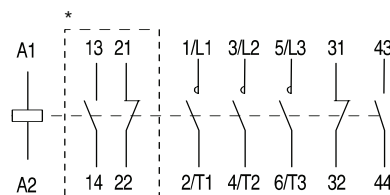
GMC-75

GMC-85



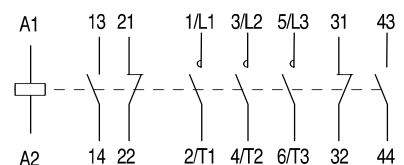
Weight: GMC-50 to 85: 1kg (2.21 lbs.)

GMC-9~22



*Optional auxiliary contact unit

GMC-32~85



3-pole Contactors / DC Coil

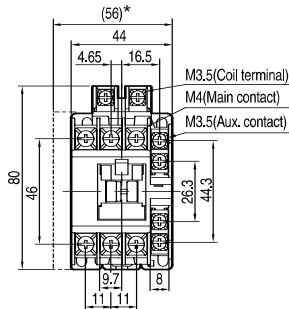
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

GMD-9

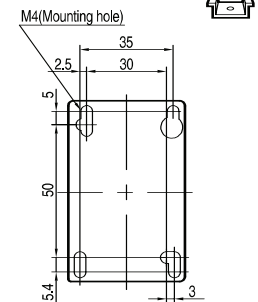
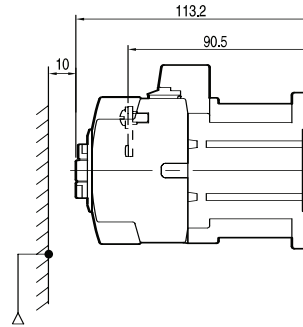
GMD-12

GMD-18

GMD-22



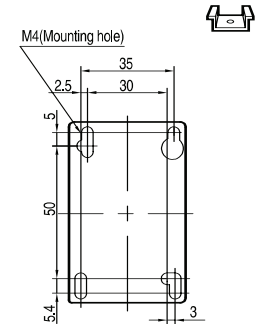
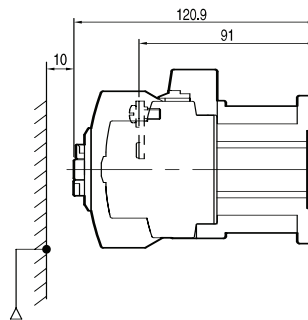
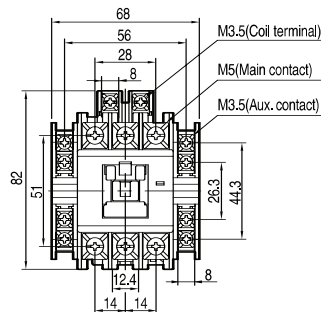
*Optional auxiliary contact unit (side mount type)



Weight: GMD-9 & 12: 0.55kg (1.21 lbs.)
GMD-18 & 22: 0.59kg (1.30 lbs.)

GMD-32

GMD-40



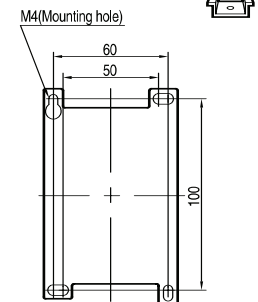
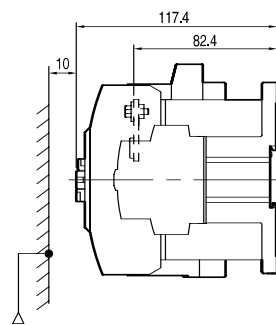
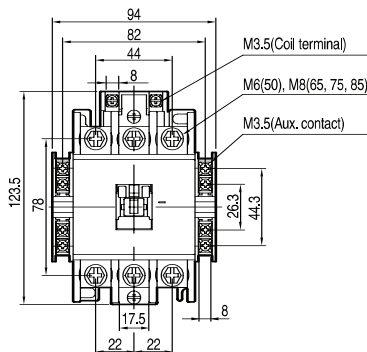
Weight: GMD-32 & 40: 0.67kg (1.48 lbs.)

GMD-50

GMD-65

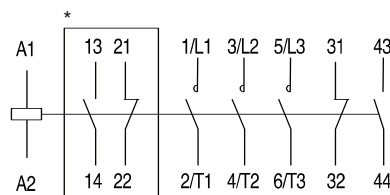
GMD-75

GMD-85



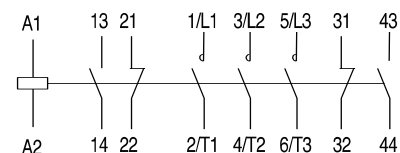
Weight: GMD-50, 65, 75 & 85: 1.06kg (2.34 lbs.)

GMD-9~22

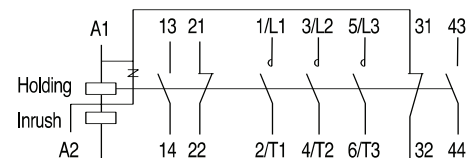


*Optional auxiliary contact unit

GMD-32, 40



GMD-50~85

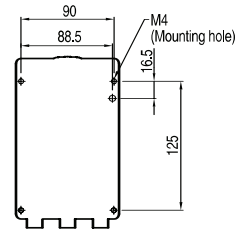
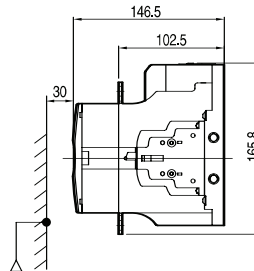
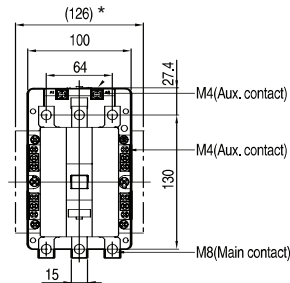


3-pole Contactors

(Dimensions shown in mm, to convert to inches multiply by 0.03937)

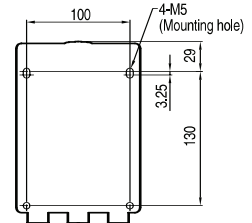
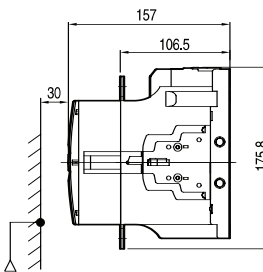
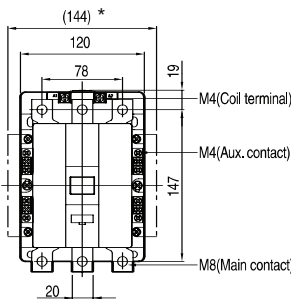
GMC-100

GMC-125



Weight: GMC-100 & 125: 2.9kg (6.39 lbs.)

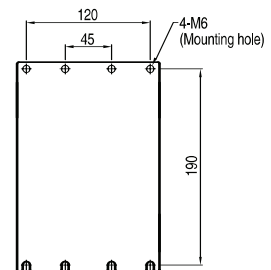
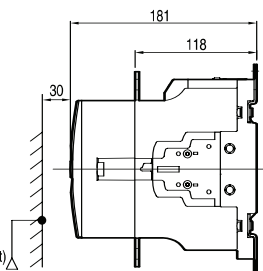
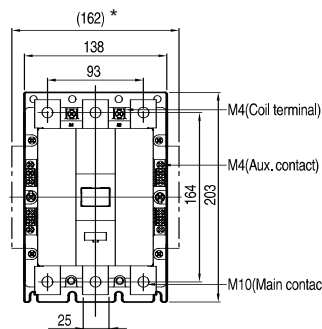
GMC-150



Weight: GMC-150: 3.4kg (7.50 lbs.)

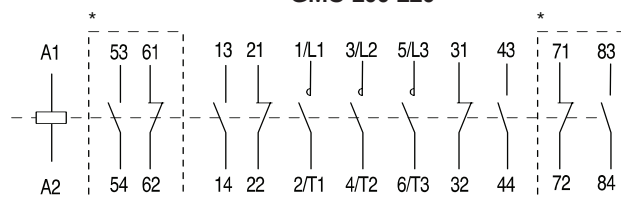
GMC-180

GMC-220



Weight: GMC-180 & 220: 5.4kg (11.91 lbs.)

GMC-100-220



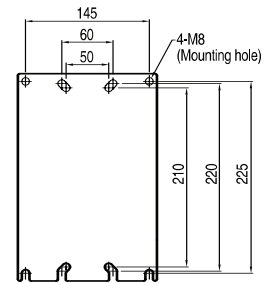
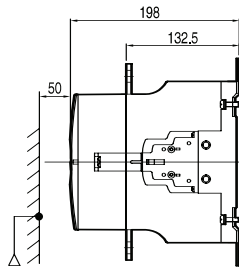
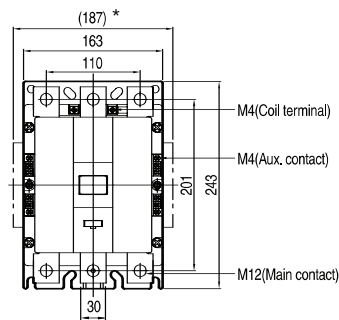
*Optional auxiliary contact unit (side mount type)

3-pole Contactors

(Dimensions shown in mm, to convert to inches multiply by 0.03937)

GMC-300

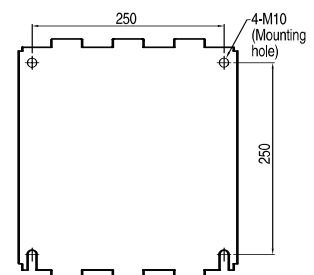
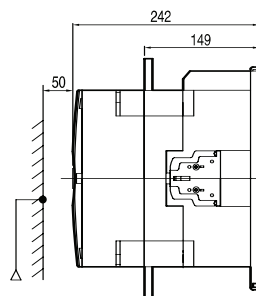
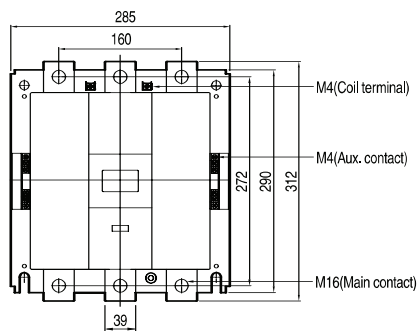
GMC-400



Weight: GMC-300 & 400: 9.2kg (20.29 lbs.)

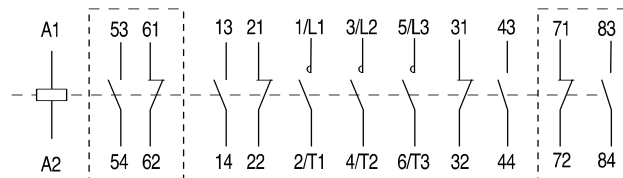
GMC-600

GMC-800



Weight: GMC-600 & 800: 22.4kg (49.39 lbs.)

GMC-300-800



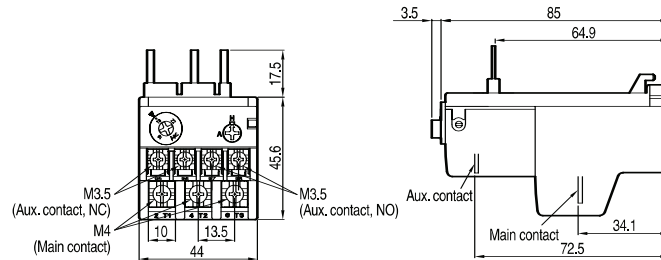
Thermal Overload Relays

(Dimensions shown in mm, to convert to inches multiply by 0.03937)

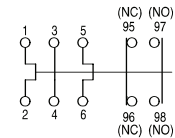
GTH-22

GTK-22

GTH-22/3



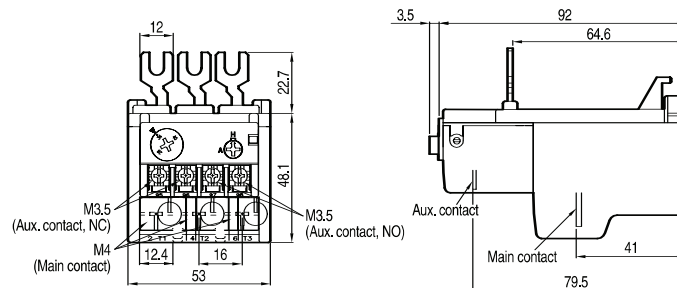
Weight: GTH-22, GTK-22 & GTH-22/3: 0.11kg (0.24 lbs.)



GTH-40

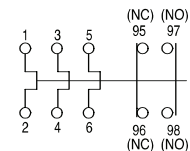
GTK-40

GTH-40/3



Weight: GTH-40, GTK-40 & GTH-40/3: 0.17kg (0.37 lbs.)

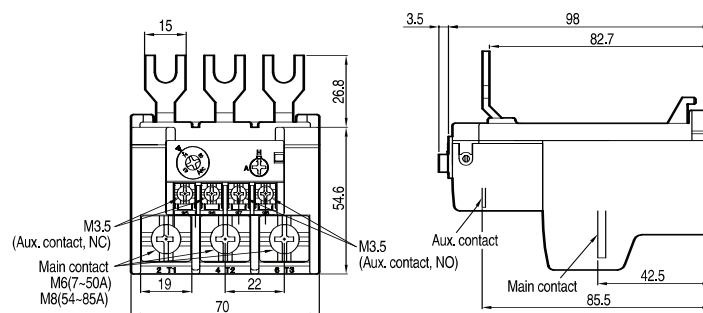
**GTH-22/3, 40/3, 85/3
GTK-22, 40, 85
(3 heater types)**



GTH-85

GTK-85

GTH-85/3



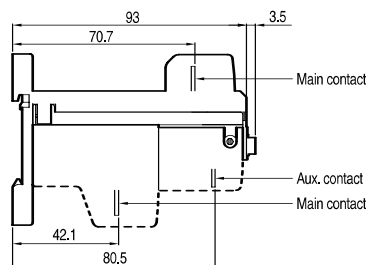
Weight: GTH-85, GTK-85 & GTH-85/3: 0.3kg (0.66 lbs.)

Separate mounting units for overload relays

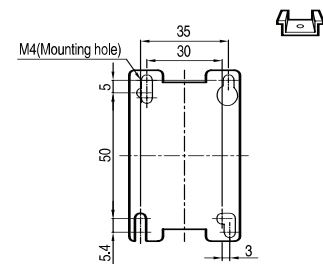
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

AZ-22H

for use with
overload relay
GTH(K)-22



*Optional auxiliary contact unit (side mount type)



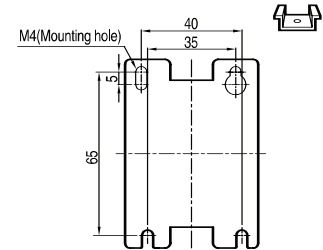
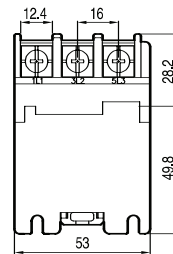
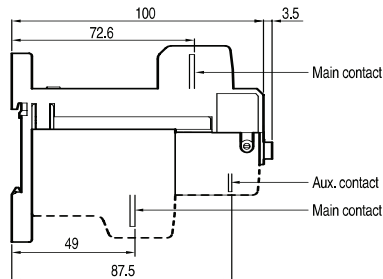
Weight: AZ-22H: 44g (0.097 lbs.)

Separate Mounting Units for Overload Relays

(Dimensions shown in mm, to convert to inches multiply by 0.03937)

AZ-40H

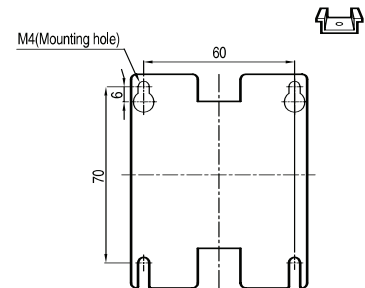
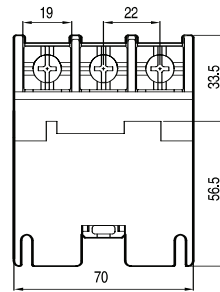
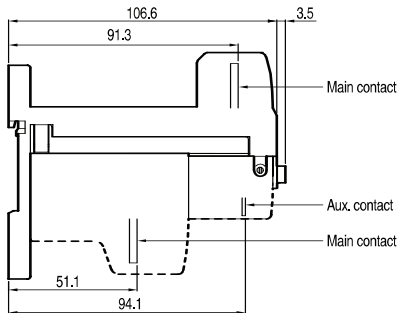
for use with
overload relay
GTH(K)-40



Weight: AZ-40H: 72g (0.16 lbs.)

AZ-85H

for use with
overload relay
GTH(K)-85

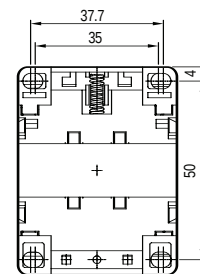
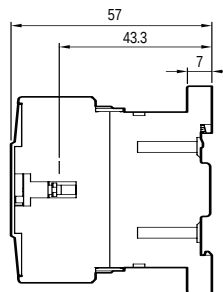
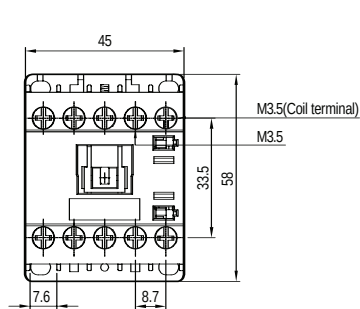


Weight: AZ-85H: 144g (0.32 lbs.)

Mini Contactors

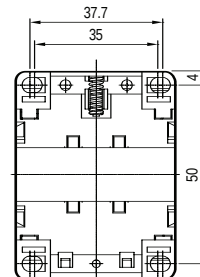
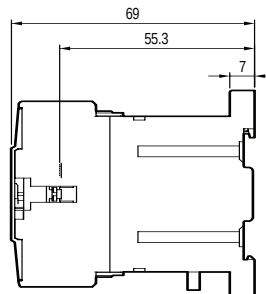
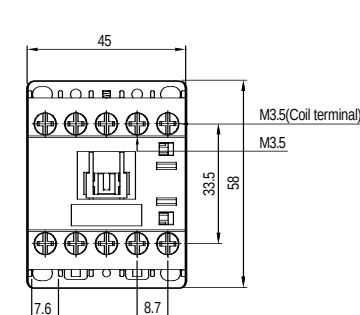
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

GMC-12M



Weight: GMC-12M: 0.17kg (0.37 lbs.)

GMD-12M



Weight: GMD-12M: 0.23kg (0.51 lbs.)

2-pole AC Contactors

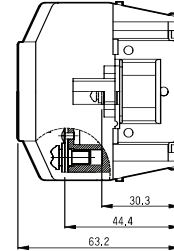
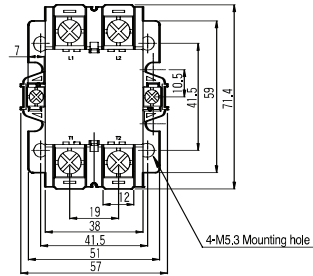
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

Terminal type : TSBS

SMC-20P2

SMC-25P2

SMC-30P2

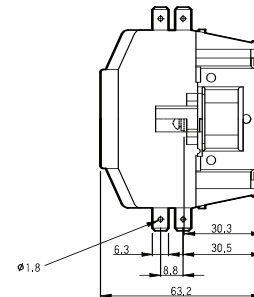
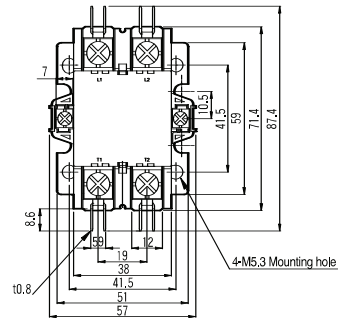


Weight: SMC-20P2, 25P2 & 30P2: 0.25kg (0.55 lbs.)

Terminal type : TQBS

SMC-20P2

SMC-25P2



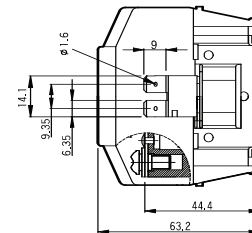
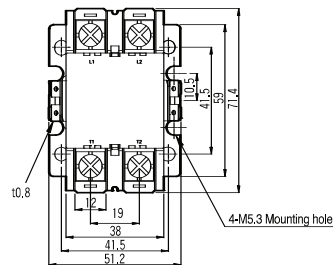
Weight: SMC-20P2 & 25P2: 0.26kg (0.57 lbs.)

Terminal type : TSBQ

SMC-20P2

SMC-25P2

SMC-30P2

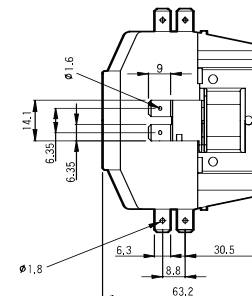
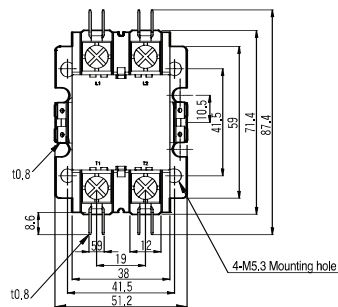


Weight: SMC-20P2, 25P2 & 30P2: 0.25kg (0.55 lbs.)

Terminal type : TQBQ

SMC-20P2

SMC-25P2



*Optional auxiliary contact unit (side mount type)

Weight: SMC-20P2 & 25P2: 0.26kg (0.57 lbs.)