









Frame size		9A	12A	18A	22A		
<b>3-pole Contactors</b>		 <p>includes AU-1 auxiliary switch, (1 N.O. / 1 N.C.)</p>					
Types	AC coil					GMC-9	GMC-12
	DC coil	GMD-9	GMD-12	GMD-18	GMD-22		
<b>Ratings / IEC60947-4</b>		kW	A	kW	A	kW	A
AC1			<b>25</b>		<b>25</b>		<b>40</b>
AC3	200/240V	2.5	11	3.5	13	4.5	18
	<b>380/440V</b>	<b>4</b>	<b>9</b>	<b>5.5</b>	<b>12</b>	<b>7.5</b>	<b>18</b>
	500/550V	4	7	7.5	12	7.5	13
	690V	4	5	7.5	9	7.5	9
<b>Ratings / UL508</b>		hp	A	hp	A	hp	A
continuous current			20		25		30
single phase	115V	0.5		0.5		1	
	230V	1		2		3	
three phase	200V	2		3		5	
	230V	2		3		5	
	<b>460V</b>	<b>5</b>		<b>7.5</b>		<b>10</b>	
	575V	7.5		10		15	
NEMA size		00		00		0	



<b>4-pole Contactors</b>					
Types	AC coil				
	DC coil	GMD-9/4	GMD-12/4	GMD-18/4	GMD-22/4
AC1(A)		<b>20</b>	<b>20</b>	<b>25</b>	<b>32</b>



<b>Available coil voltages</b>	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>
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<b>Additional Auxiliary Contacts</b>	 <b>AU-2</b> 2-pole Front mount		 <b>AU-4</b> 4-pole Front mount		 <b>AU-1</b> 2-pole Side mount	
	Configuration	Part No.	Configuration	Part No.	Configuration	Part No.
	2 N.O.	<a href="#">AU-2-20</a>	4 N.O.	<a href="#">AU-4-40</a>	1 N.O. / 1 N.C.	<a href="#">AU-1</a>
	2 N.C.	<a href="#">AU-2-02</a>	3 N.O. / 1 N.C.	<a href="#">AU-4-31</a>		
	1 N.O. / 1 N.C.	<a href="#">AU-2-11</a>	2 N.O. / 2 N.C.	<a href="#">AU-4-22</a>		
		1 N.O. / 3 N.C.	<a href="#">AU-4-13</a>			
		4 N.C.	<a href="#">AU-4-04</a>			




<b>Overload Relays</b>		 <b>GT-22</b>		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	 <b>AZ-22H</b> Base for separate mounting
Class 10A	Differential	<a href="#">GTK-22</a>				
	Non-differential (3-heater)	<a href="#">GTH-22/3</a>				
	Non-differential (2-heater)	<a href="#">GTH-22</a>				
Class 20	Differential	<a href="#">GTK-22/L</a>				





# Contactors (9 to 85A)



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
	<b>50</b>		<b>60</b>		<b>80</b>		<b>100</b>		<b>110</b>		<b>135</b>
7.5	32	11	40	15	55	18.5	65	22	75	25	85
<b>15</b>	<b>32</b>	<b>18.5</b>	<b>40</b>	<b>22</b>	<b>50</b>	<b>30</b>	<b>65</b>	<b>37</b>	<b>75</b>	<b>45</b>	<b>85</b>
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	
<b>20</b>		<b>25</b>		<b>30</b>		<b>40</b>		<b>50</b>		<b>50</b>	
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	
<b>50</b>		<b>60</b>		<b>80</b>		<b>100</b>		<b>110</b>		<b>135</b>	


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)*

 <b>AU-2</b> 2-pole Front mount		 <b>AU-4</b> 4-pole Front mount		 <b>AU-1</b> 2-pole Side mount	
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		


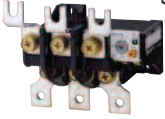
 <b>GT-40</b>	Setting ranges (A) 4 - 6   12 - 18 5 - 8   16 - 22 6 - 9   18 - 26 7 - 10   24 - 36 9 - 13   28 - 40	 <b>AZ-40H</b> <i>Base for separate mounting</i>	 <b>GT-85</b>	Setting ranges (A) 7 - 10   28 - 40 9 - 13   34 - 50 12 - 18   45 - 65 16 - 22   54 - 75 18 - 26   63 - 85 24 - 36	 <b>AZ-85H</b> <i>Base for separate mounting</i>
GTK-40		GTK-85			
GTH-40/3		GTH-85/3			
GTH-40		GTH-85			
GTK-40/L		GTK-85/L			

Frame size		100A		125A		150A	
<b>3-pole Contactors</b> <i>For further technical information see pages 10-11.</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>					
Types	AC/DC common coil	GMC-100		GMC-125		GMC-150	
<b>Ratings / IEC60947-4</b>		kW	A	kW	A	kW	A
AC1			<b>150</b>		<b>150</b>		<b>200</b>
AC3	200/240V	30	105	37	125	45	150
	<b>380/440V</b>	<b>55</b>	<b>105</b>	<b>60</b>	<b>120</b>	<b>75</b>	<b>150</b>
	500/550V	55	85	60	90	90	140
	690V	55	65	60	70	90	100
<b>Ratings / UL508</b>		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	
	<b>460V</b>	<b>60</b>		<b>75</b>		<b>100</b>	
	575V	60		75		100	
NEMA size		3		3		4	

<b>4-pole Contactors</b> <i>For further technical information visit <a href="http://altechcorp.com">altechcorp.com</a>.</i>				
Types	AC/DC common coil	GMC-100/4	GMC-125/4	GMC-150/4
AC1(A)		<b>150</b>	<b>155</b>	<b>200</b>
<b>Available nominal coil voltages (AC 50/60Hz); (DC)</b>		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) <i>Ordering Example: GMC-100-AC100/200V (see also page 6)</i>		

<b>Additional Auxiliary Contacts</b>		<b>AU-100</b> 1NO+1NC, Side mount
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### Overload Relays

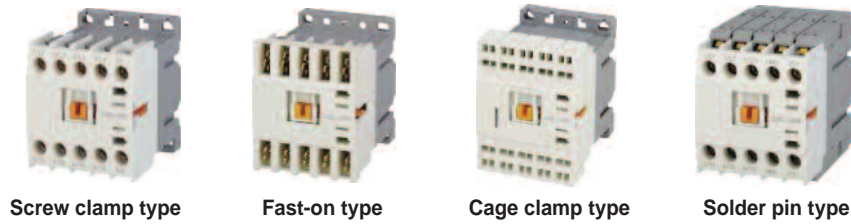
<b>Bimetallic style Type GT</b>			<b>Setting ranges (A)</b> 34 - 50 39 - 57 43 - 65 54 - 80 65 - 100 85 - 125		<b>Setting ranges (A)</b> 34 - 50 39 - 57 43 - 65 54 - 80 65 - 100 85 - 125 100 - 150
		<b>GT- 100</b>		<b>GT- 150</b>	
Class 10A	Differential	GTK-100		GTK-150	
	Non-differential (3-heater)	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
<b>230</b>		<b>260</b>		<b>350</b>		<b>420</b>		<b>660</b>		<b>900</b>	
55	180	75	250	90	300	125	400	190	630	220	800
<b>90</b>	<b>180</b>	<b>132</b>	<b>250</b>	<b>160</b>	<b>300</b>	<b>220</b>	<b>400</b>	<b>330</b>	<b>630</b>	<b>440</b>	<b>800</b>
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	
<b>125</b>		<b>150</b>		<b>200</b>		<b>300</b>		<b>400</b>		<b>600</b>	
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	
<b>230</b>		<b>260</b>		<b>350</b>		<b>420</b>		<b>660</b>		<b>800</b>	
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)			
											
				<b>AU-100</b> <i>1NO+1NC, Side mount</i>							
		<b>Setting ranges (A)</b> 65 - 100 85 - 125 100 - 150 120 - 180 160 - 240				<b>Setting ranges (A)</b> 85 - 125 100 - 150 120 - 180 160 - 240 220 - 300 260 - 400				<b>Setting ranges (A)</b> 220 - 300 260 - 400 400 - 600 520 - 800	
<b>GT- 220</b>				<b>GT- 400</b>				<b>GT- 800</b>			
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.



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			<b>20</b>		<b>20</b>		<b>20</b>		<b>20</b>
AC3	200/240V	1.5	7	2.2	9	3	12	4	15
	<b>380/440V</b>	<b>2.2</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>5.5</b>	<b>12</b>	<b>7.5</b>	<b>16</b>
	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	
	<b>460V</b>	<b>5</b>		<b>7.5</b>		<b>10</b>		<b>10</b>	
	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  
*Ordering Example: GMC-6M-10-AC120V (see also page 6)*

### Additional Auxiliary Contacts

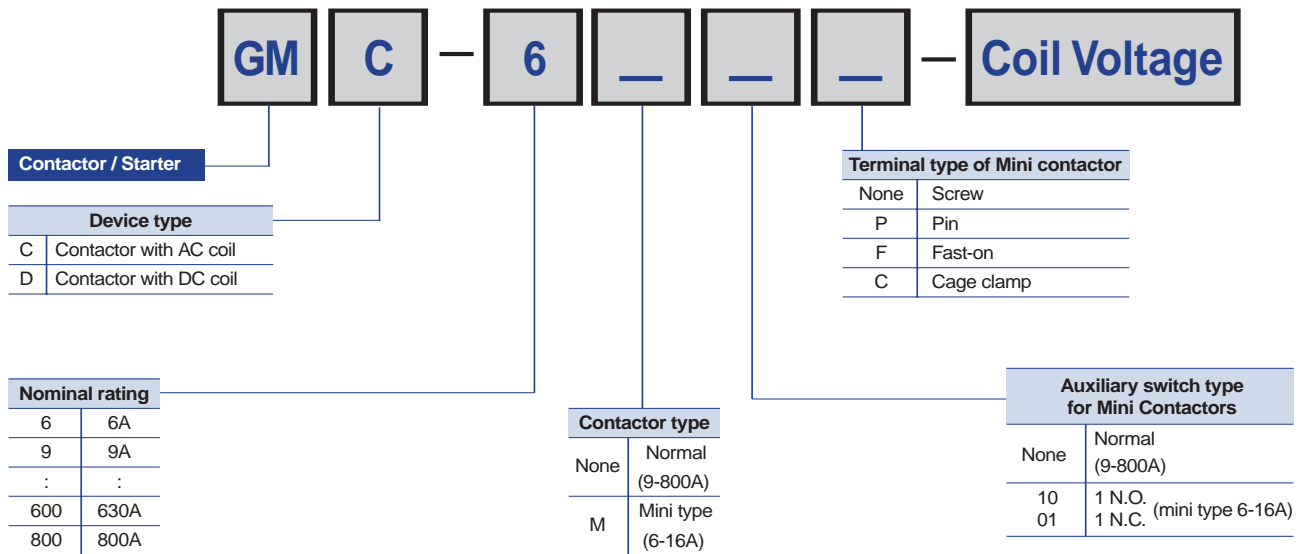
	Screw clamp type	Fast-on type	Cage clamp type	Solder pin type
2-pole, Front mount	AU-2M	AU-2MF	AU-2MC	
4-pole, Front mount	AU-4M	AU-4MF	AU-4MC	
2-pole, Side mount	AU-1M	AU-1MF	AU-1MC	

### Overload Relays

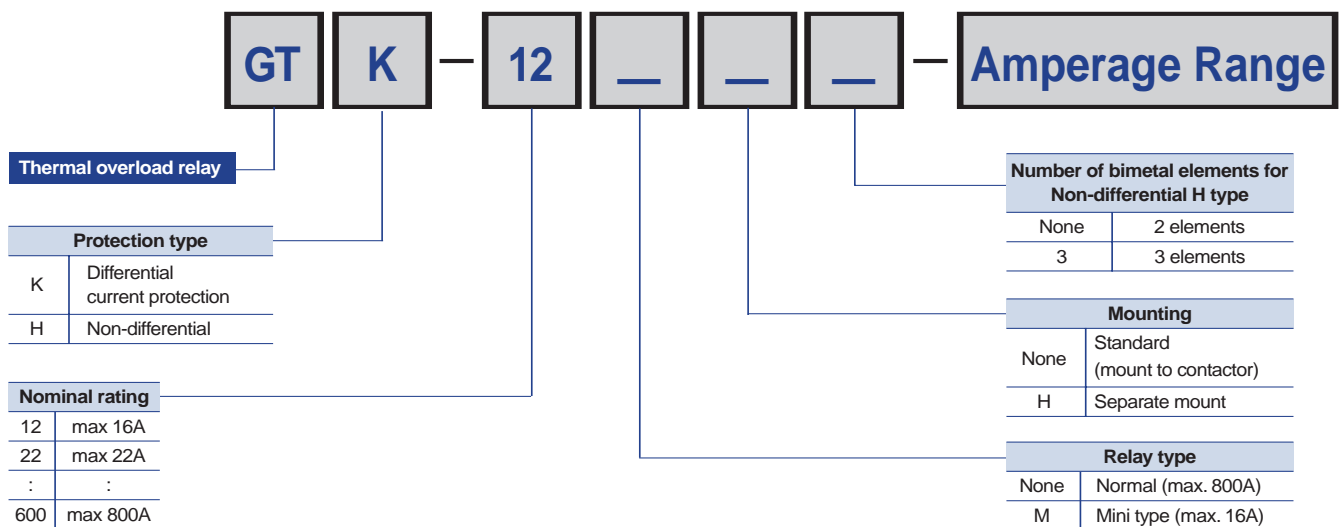
<b>Bimetallic style</b> Type GT Class 10A	<b>GT-12M</b>	Setting ranges (A) 0.1 - 0.16 0.16 - 0.25 0.25 - 0.4 0.4 - 0.63 0.63 - 1 1 - 1.6 1.6 - 2.5 2.5 - 4	4 - 6 5 - 8 6 - 9 7 - 10 9 - 13 12 - 16	<b>AZ-12H</b> <i>Base for separate mounting</i>
	Differential			GTK-12M
	Non-differential (3-heater)			GTH-12M/3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

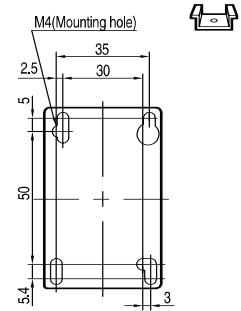
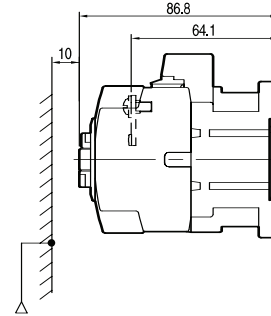
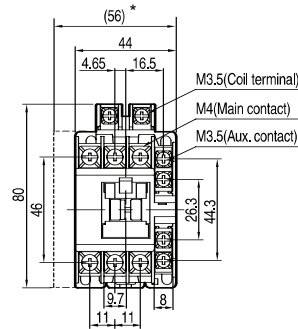
Example : SMC-25P2, TSBQ, AC110V 50Hz



# 3-pole Contactors / AC Coil

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

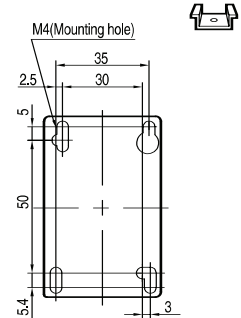
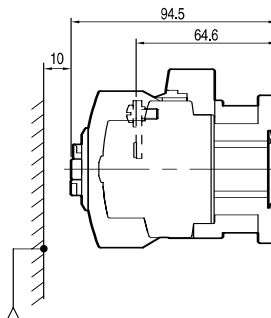
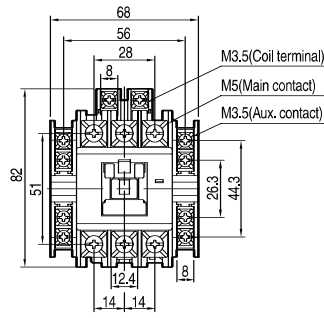
- GMC-9
- GMC-12
- GMC-18
- GMC-22



\*Optional auxiliary contact unit (side mount type)

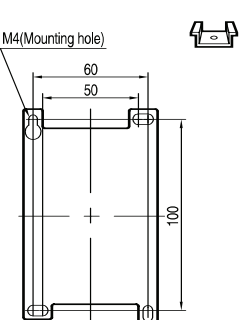
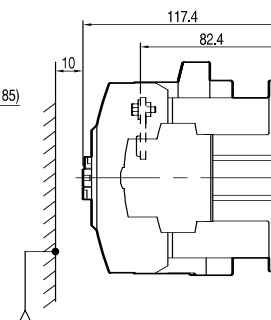
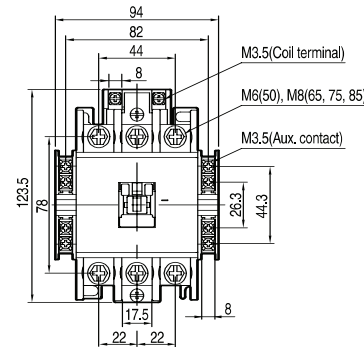
Weight: GMC-9 & 12: 0.33kg (0.73 lbs.)  
GMC-18 & 22: 0.37kg (0.82 lbs.)

- GMC-32
- GMC-40



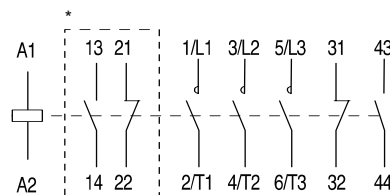
Weight GMC-32 & 40: 0.45kg (0.99 lbs.)

- GMC-50
- GMC-65
- GMC-75
- GMC-85

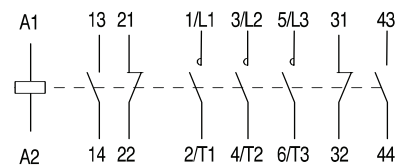


Weight: GMC-50 to 85: 1kg (2.21 lbs.)

GMC-9~22



GMC-32~85

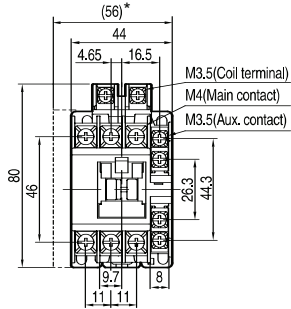


\*Optional auxiliary contact unit

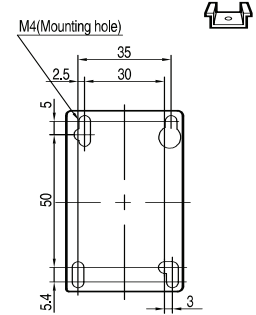
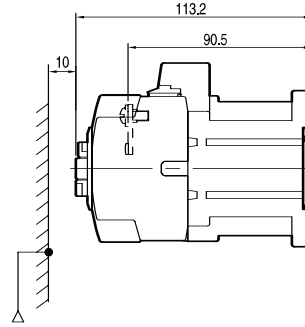
## 3-pole Contactors / DC Coil

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

- GMD-9
- GMD-12
- GMD-18
- GMD-22

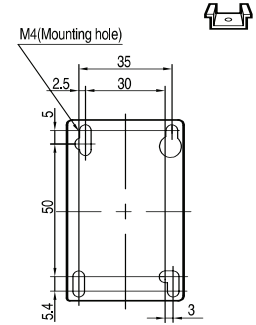
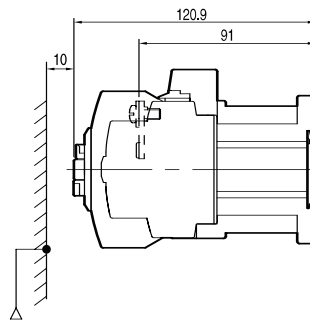
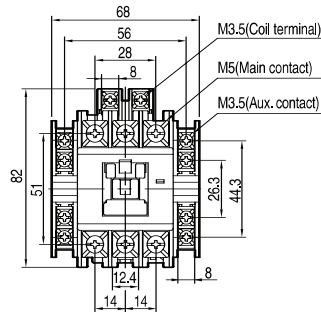


\*Optional auxiliary contact unit (side mount type)



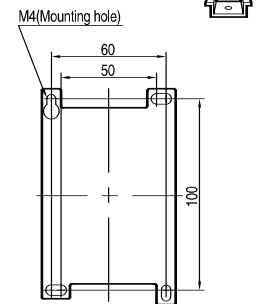
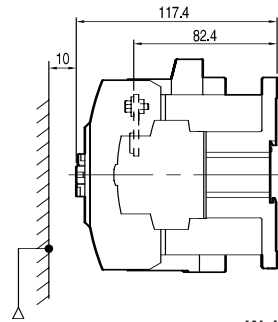
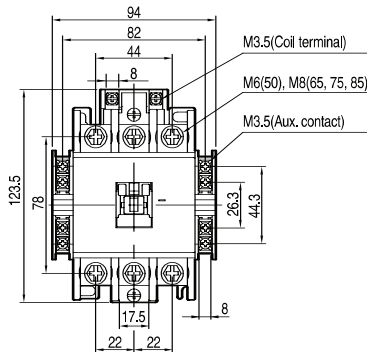
Weight: GMD-9 & 12: 0.55kg (1.21 lbs.)  
GMD-18 & 22: 0.59kg (1.30 lbs.)

- GMD-32
- GMD-40



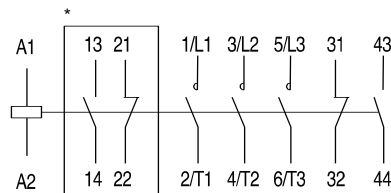
Weight: GMD-32 & 40: 0.67kg (1.48 lbs.)

- GMD-50
- GMD-65
- GMD-75
- GMD-85



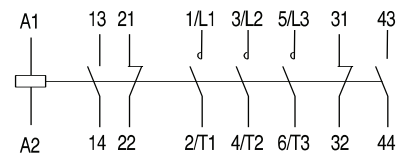
Weight: GMD-50, 65, 75 & 85: 1.06kg (2.34 lbs.)

### GMD-9~22

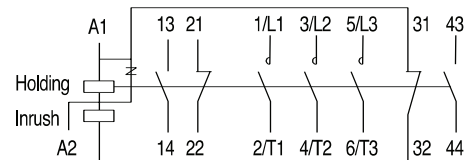


\*Optional auxiliary contact unit

### GMD-32, 40



### GMD-50~85

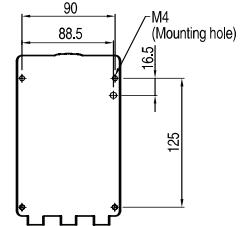
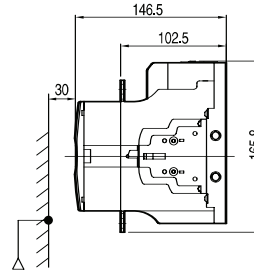
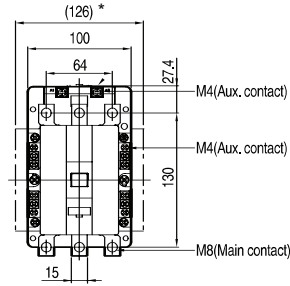


# 3-pole Contactors

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

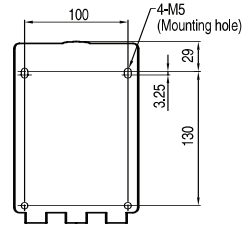
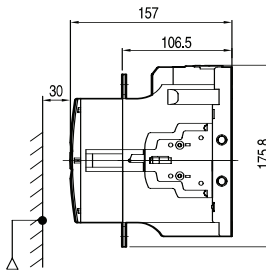
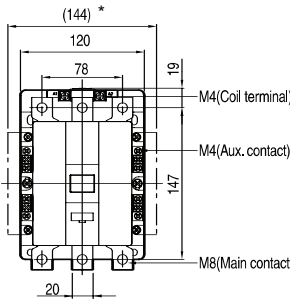
**GMC-100**

**GMC-125**



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

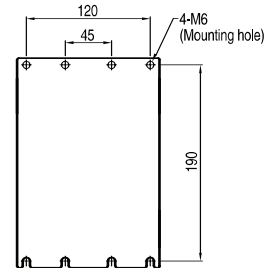
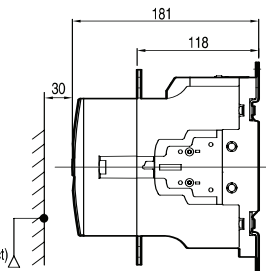
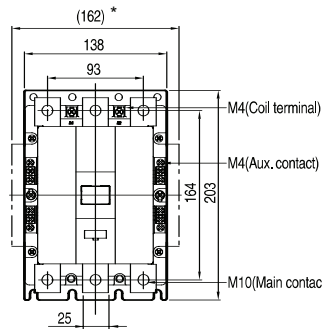
**GMC-150**



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

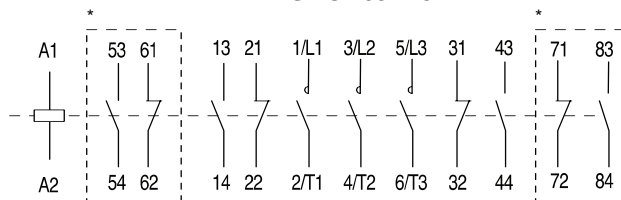
**GMC-180**

**GMC-220**



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

## GMC-100-220



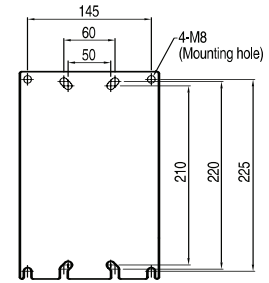
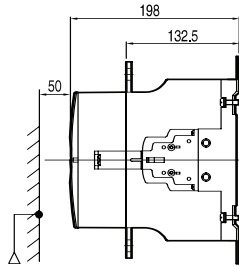
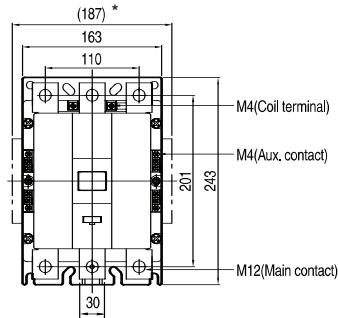
\*Optional auxiliary contact unit (side mount type)

## 3-pole Contactors

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

**GMC-300**

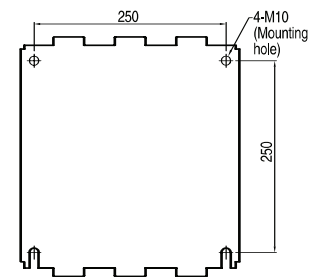
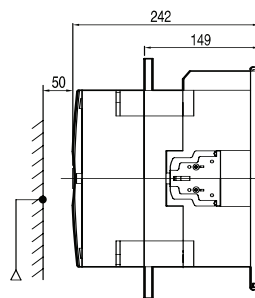
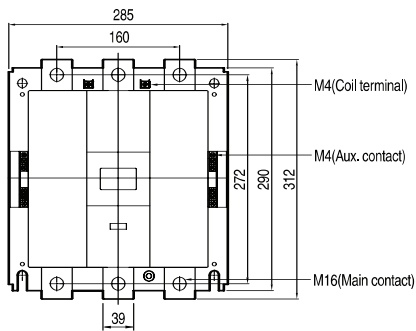
**GMC-400**



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

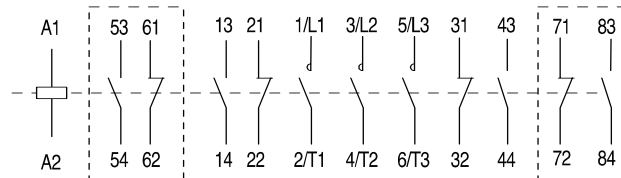
**GMC-600**

**GMC-800**



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

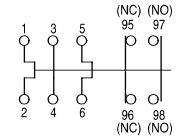
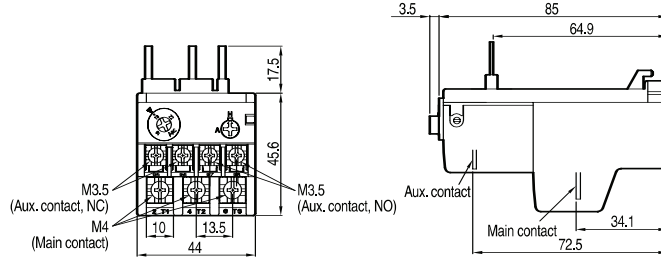
### GMC-300-800



# Thermal Overload Relays

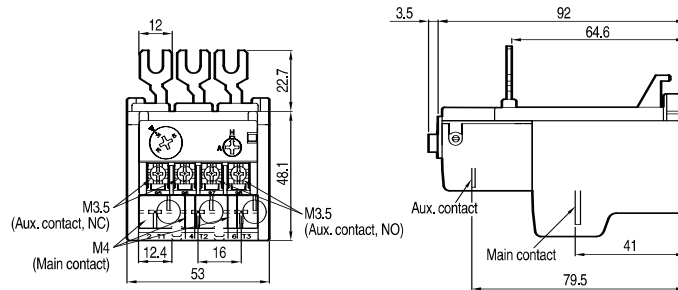
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

- GTH-22**
- GTK-22**
- GTH-22/3**

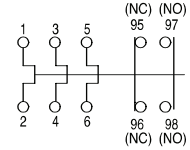


**Weight: GTH-22, GTK-22 & GTH-22/3: 0.11kg (0.24 lbs.)**

- GTH-40**
- GTK-40**
- GTH-40/3**

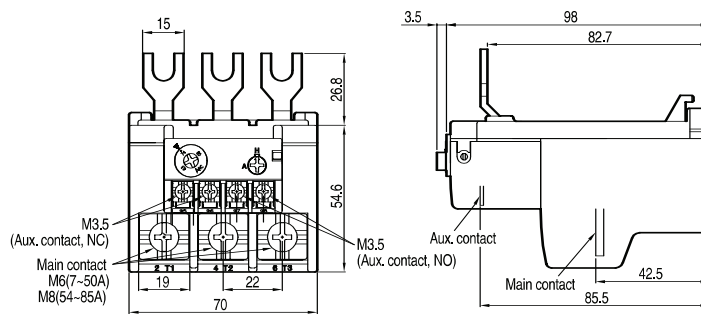


**GTH-22/3, 40/3, 85/3  
GTK-22, 40, 85  
(3 heater types)**



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

- GTH-85**
- GTK-85**
- GTH-85/3**



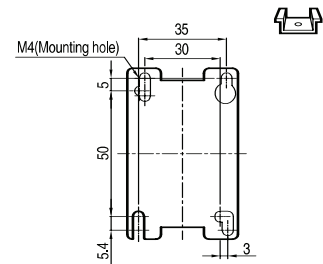
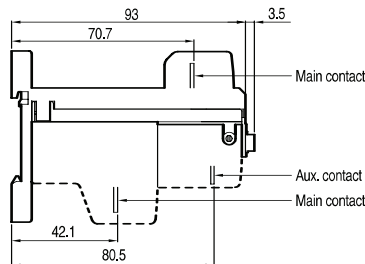
**Weight: GTH-85, GTK-85 & GTH-85/3: 0.3kg (0.66 lbs.)**

# 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)

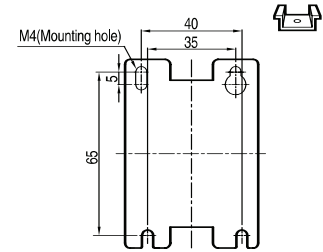
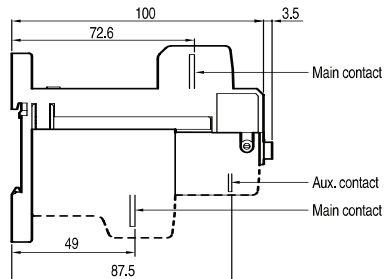
**Weight: AZ-22H: 44g (0.097 lbs.)**

## Separate Mounting Units for Overload Relays

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

### AZ-40H

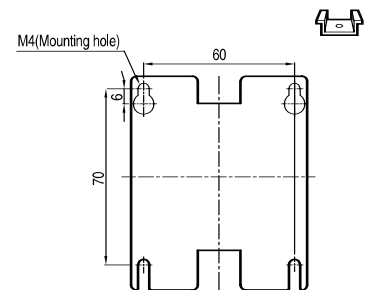
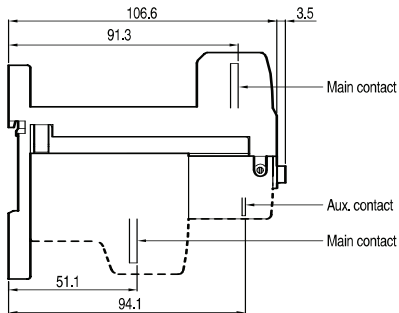
for use with  
overload relay  
GTH(K)-40



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

### AZ-85H

for use with  
overload relay  
GTH(K)-85

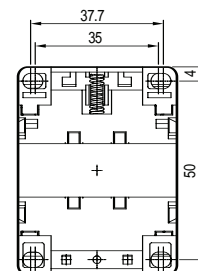
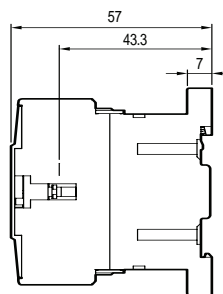
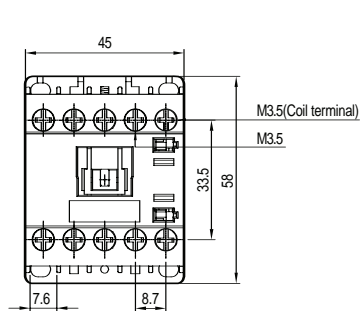


Weight: AZ-85H: 144g (0.32 lbs.)

## Mini Contactors

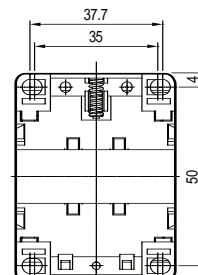
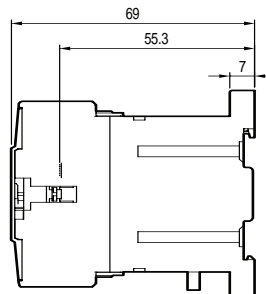
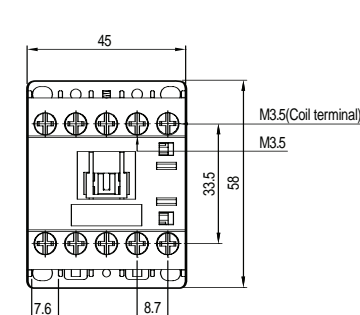
(Dimensions shown in mm, to convert to inches multiply by 0.03937)

### GMC-12M



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

### GMD-12M



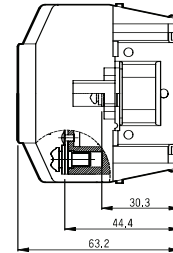
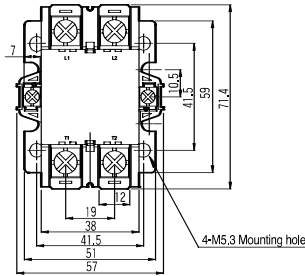
Weight: GMD-12M: 0.23kg (0.51 lbs.)

# 2-pole AC Contactors

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

## Terminal type : TSBS

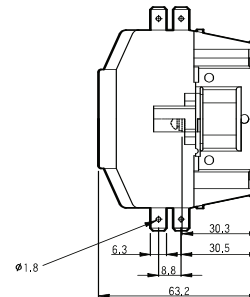
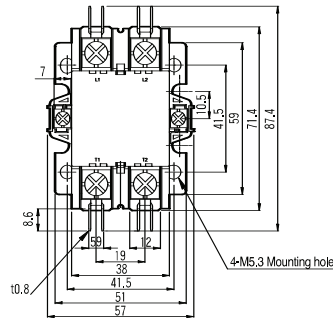
- SMC-20P2
- SMC-25P2
- SMC-30P2



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

## Terminal type : TQBS

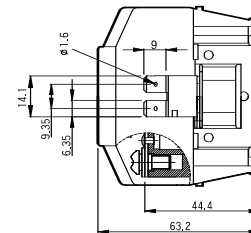
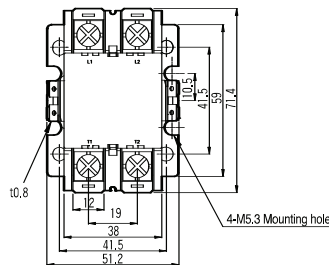
- SMC-20P2
- SMC-25P2



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

## Terminal type : TSBQ

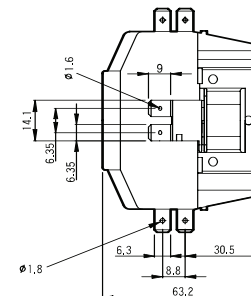
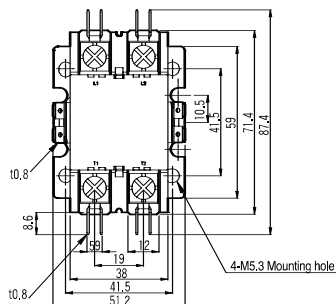
- SMC-20P2
- SMC-25P2
- SMC-30P2



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.)