

# Load Centers and Circuit Breakers



MLM4020CCU



THQL2140



THQL1120AF2



THQL1115DF



THQL2120GFT



# Midwest Load Centers

## Application Information

Midwest load centers lower your costs by making installation faster and easier, increasing application flexibility and reducing inventory requirements. At the same time, they deliver obvious and significant advances in design, function and quality.

Main lug load centers offer an economical solution for subpanels and similar applications. All main lug units 125A and above convert easily to main breaker units.



MLM4020CCU

## Features and Benefits

### Specifications

- UL Listed Panelboards No. 67
  - Service barriers included for factory installed main circuit breaker
- Suitable for use as service entrance equipment when installed in accordance with National Electrical Code
- 60°C/75°C Conductor Rating
- Single phase, 40-225A, 2-42 circuits
- Main breaker 22kAIC factory installed – standard
- Main lugs – factory installed
- All neutral holes rated for 14-4 wire
- Indoor and outdoor rated enclosures
- 100% rated split neutral on each side\*

### Flexibility – Most Model Numbers

- Main lug models field convertible to main breaker
- All load centers top or bottom feed
- Indoor fronts combination surface/flush
- Tie bar may be removed to split neutral/ground

### Rugged Durability

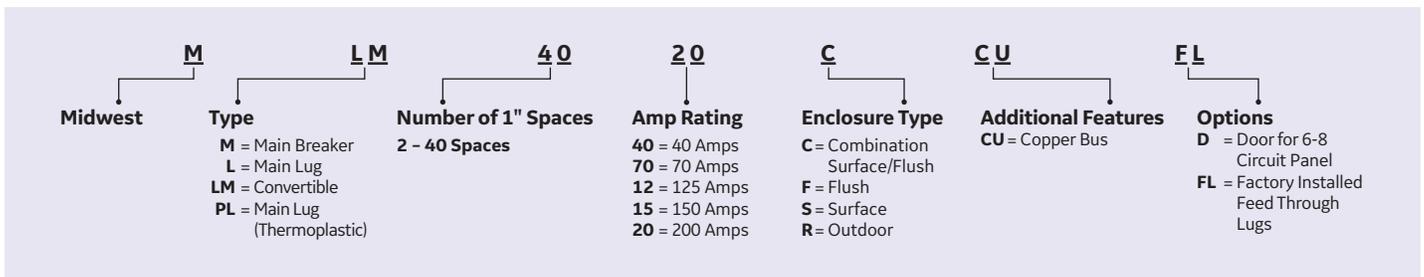
- Sturdy copper bus
- Front packed in inner carton for added protection
- Copper bus with tin-plating standard
- Galvanized box

### Installation Ease

- One-piece interior removes and reinstalls easily
- Split neutrals extend the full length of the interior for ease of wiring\*
- Convertible models convert easily to main breaker
- Combination surface/flush front with spring-reinforced pan
- Combination slotted/Robertson square-drive screws on neutral,\* ground, front and breaker lugs
- Field installable feed-through lugs up to 200A
- Straight-through main wiring
- Main breaker is clearly marked and circuit numbers are stamped on front
- Isolated ground bar is available
- Compact box maintains optimum wire-bending space



\* 16 circuits and above.



# Midwest Load Centers

## Main Lugs

1-Phase, 40 – 125 Amps, 120/240VAC

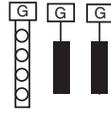


Fig. A  
ML240SCU, RCU  
ML270SCU, RCU

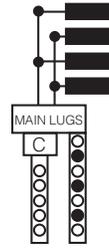


Fig. B  
ML412C, MPL412R,  
ML412R1

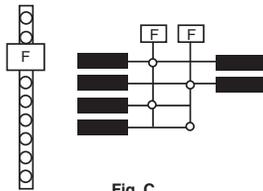


Fig. C  
MLM612FCU, SCU, RCU

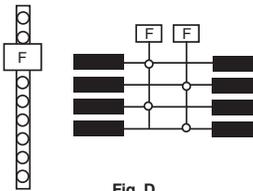


Fig. D  
MLM812FCU, SCUD, RCU

Terminal Symbol	Wire Range (AWG/kcmil)	
	CU	AL
○	14-8	12-8
●	14-4	12-4
C	6-2/0	
F	6-1	
G	6-3	

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
○	1	—
●	1	2

### 2/4/6/8 Circuits

Fig.	Model Number	Amps	1" Spaces		1/2" Spaces		Total 1 Pole Spaces	Main Wire Size (AWG/kcmil) Cu/Al	Equipment Ground Kit (order separately)	Enclosure Type	Material Type	Mounting Style	Feed	UL
			1 Pole	2 Pole	1 Pole	2 Pole								
A	ML240RCU <sup>1</sup>	40	2	1	4	1	4	14-4	MGK4	N3R	Metallic	—	Top	Y
A	ML240SCU <sup>5,7</sup>	40	2	1	4	1	4	14-4	MGK4	N1	Metallic	Surface	Top/Bottom	
A	ML270RCU <sup>1</sup>	70	2	1	4	1	4	6-3	MGK4	N3R	Metallic	—	Top	
A	ML270SCU <sup>5,7</sup>	70	2	1	4	1	4	6-3	MGK4	N1	Metallic	Surface	Top/Bottom	
B	ML412C <sup>2,5,7</sup>	125	4	2	8	3	8	1-2/0	MGL1	N1	Metallic	Combination Surface/Flush	Top/Bottom	
B	ML412R1 <sup>1,2</sup>	125	4	2	8	3	8	1-2/0	MGL1	N3R	Metallic	—	Top	
C	MLM612RCU <sup>1,4</sup>	125	4	3	12	4	12	6-1	MGK12	N3R	Metallic	—	Top	
B	MPL412R1 <sup>2,3</sup>	125	4	2	8	3	8	1-2/0	MGL1	N3R	Thermoplastic	—	Top	
C	MLM612FCU <sup>4,5</sup>	125	6	3	12	4	12	6-1	MGL2	N1	Metallic	Flush	Top/Bottom	
C	MLM612SCU <sup>4,5</sup>	125	6	3	12	4	12	6-1	MGL2	N1	Metallic	Surface	Top/Bottom	
D	MLM812FCUD <sup>4,5</sup>	125	8	4	16	8	16	6-1	MGL2	N1	Metallic	Flush	Top/Bottom	
D	MLM812RCU <sup>1,4</sup>	125	8	4	16	8	16	6-1	MGK12	N3R	Metallic	—	Top	
D	MLM812SCUD <sup>4,5</sup>	125	8	4	16	8	16	6-1	MGL2	N1	Metallic	Surface	Top/Bottom	

<sup>1</sup> 40-225 amp 1-Phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately.

<sup>2</sup> 10 kAIC.

<sup>3</sup> 125 amp maximum branch capacity.

<sup>4</sup> For main breaker, order MHQLRK2 retainer kit plus 2-pole circuit breaker. 100 amp maximum due to wire bending requirements.

<sup>5</sup> Main and branch breakers are limited to 70 amps.

<sup>6</sup> Load center includes a factory installed ground bar and add-a-lug. A separate MGL2 can be added in the unlikely event that another ground bar is required.

<sup>7</sup> No door.

# Midwest Load Centers

## Main Lugs

1-Phase, 125 – 150 Amps, 120/240VAC

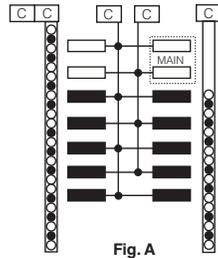


Fig. A  
MLM1212CCU

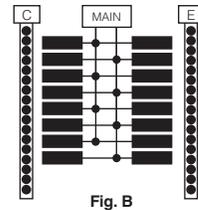


Fig. B  
MLM1212RCU, MLM1612CCU

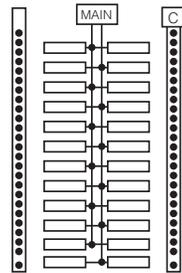


Fig. C  
MLM2412CCU, MLM2412RCU

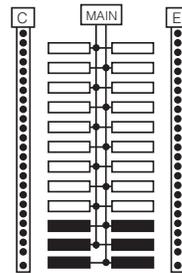


Fig. D  
MLM2415RCU

Terminal Symbol	Wire Range (AWG/kcmil)	
	CU	AL
●	14-4	12-4
C	6-2/0	
E	1-300	

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
□	1	—
■	1	2

### 14/16/24 Circuits

Fig.	Model Number	Amps	1" Spaces		1/2" Spaces		Total 1 Pole Spaces	Main Wire Size (AWG/kcmil) Cu/Al	Equipment Ground Kit	Enclosure Type	Material Type	Mounting Style	Feed	UL
			1 Pole	2 Pole	1 Pole	2 Pole								
A	MLM1212CCU <sup>4,5</sup>	125	14	6	20	8	24	6-2/0	Included	N1	Metallic	Combination Surface/Flush	Top/Bottom	Y
B	MLM1212RCU <sup>1,4,6</sup>	125	14	6	20	8	24	6-2/0	Included	N3R	Metallic	—	Top	
B	MLM1612CCU <sup>2</sup>	125	16	8	16	6	24	6-2/0	MGK12, MGK24 <sup>7</sup>	N1	Metallic	Combination Surface/Flush	Top/Bottom	
C	MLM2412CCU <sup>2</sup>	125	24	12	—	—	24	6-2/0	MGK24, MGK32 <sup>7</sup>	N1	Metallic	Combination Surface/Flush	Top/Bottom	
C	MLM2412RCU <sup>1,2</sup>	125	24	12	—	—	24	6-2/0	MGK24, MGK32 <sup>7</sup>	N3R	Metallic	—	Top/Bottom	
D	MLM2415RCU <sup>1,3</sup>	150	24	12	12	4	30	1-3/0 (Cu), 2/0-3/0 (Al)	MGK24, MGK32 <sup>7</sup>	N3R	Metallic	—	Top/Bottom	

<sup>1</sup> 40-225 amp 1-Phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately.

<sup>2</sup> For main breaker, order MQMH000 plus 2-pole MHQL or MHHQL circuit breakers.

<sup>3</sup> For main breaker, order MHQMVXXXD circuit breaker.

<sup>4</sup> For main breaker applications, use reverse feed MHQL or MHHQL circuit breakers plus MHQLRK3 breaker retainer kit.

<sup>5</sup> Main and branch breakers are limited to 70 amps.

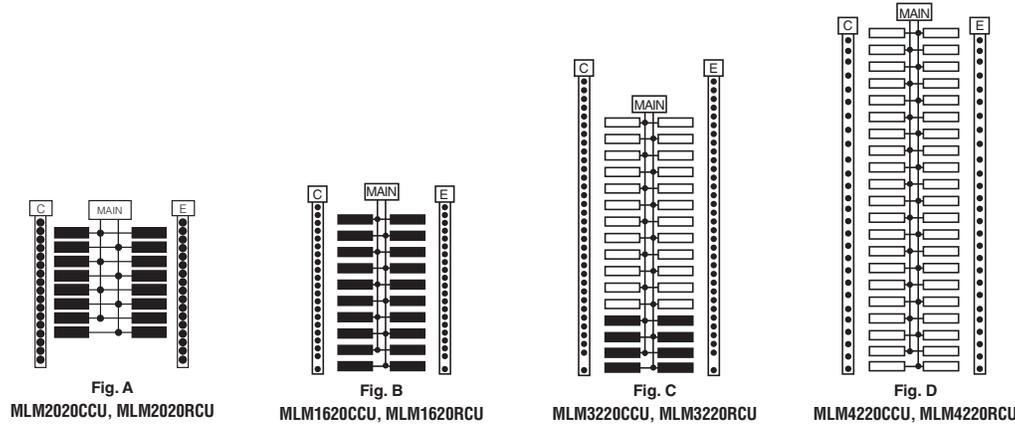
<sup>6</sup> Load center includes a factory installed ground bar and add-a-lug. A separate MGL2 can be added in the unlikely event that another ground bar is required.

<sup>7</sup> Order separately.

## Midwest Load Centers

# Main Lugs

1-Phase, 200 Amps, 120/240VAC



Terminal Symbol	Wire Range (AWG/kcmil)	
	CU	AL
●	14-4	12-4
C	6-2/0	
E	1-300	

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
□	1	—
■	1	2

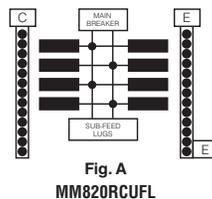
## 16/20/32/40 Circuits

Fig.	Model Number	Amps	1" Spaces		1/2" Spaces		Total 1 Pole Spaces	Main Wire Size (AWG/kcmil) Cu/Al	Equipment Ground Kit (order separately)	Enclosure Type	Material Type	Mounting Style	Feed	UL
			1 Pole	2 Pole	1 Pole	2 Pole								
A	MLM1620CCU <sup>2</sup>	200	16	8	32	14	32	6-250	MGK32	N1	Metallic	Combination Surface/Flush	Top/Bottom	Y
A	MLM1620RCU <sup>1,2</sup>	200	16	8	32	14	32	6-250	MGK32	N3R	Metallic	—	Top	
B	MLM2020CCU <sup>2</sup>	200	20	10	40	18	40	6-250	MGK32	N1	Metallic	Combination Surface/Flush	Top/Bottom	
B	MLM2020RCU <sup>1,3</sup>	200	20	10	40	18	40	6-250	MGK24, MGK42	N3R	Metallic	—	Top	
C	MLM3220CCU <sup>2</sup>	200	32	16	16	6	40	6-250	MGK32	N1	Metallic	Combination Surface/Flush	Top/Bottom	
C	MLM3220RCU <sup>1,2</sup>	200	32	16	16	6	40	1-250 (Cu), 2/0-250 (Al)	MGK32	N3R	Metallic	—	Top/Bottom	
D	MLM4020CCU <sup>2</sup>	200	40	20	—	—	40	6-250	MGK42	N1	Metallic	Surface/Flush	Top/Bottom	
D	MLM4020RCU <sup>1,2</sup>	200	40	20	—	—	40	6-250	MGK42	N3R	Metallic	—	Top/Bottom	

<sup>1</sup> 40-225 amp 1-Phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately.  
<sup>2</sup> For main breaker, order MHQMVXXXD circuit breaker.

# Main Breaker

1-Phase, 200 Amps, 120/240VAC



Terminal Symbol	Wire Range (AWG/kcmil)	
	CU	AL
●	14-4	12-4
C	6-2/0	
E	1-300	

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
□	1	—
■	1	2

## 2/4/6/8 Circuits

Fig.	Model Number	Amps	1" Spaces		1/2" Spaces		Total 1 Pole Spaces	Main Wire Size (AWG/kcmil) Cu/Al	Equipment Ground Kit (order separately)	Enclosure Type	Material Type	Mounting Style	Feed	UL
			1 Pole	2 Pole	1 Pole	2 Pole								
A	MM820RCUFL <sup>1</sup>	200	8	4	16	6	16	1-250 (Cu), 2/0-250 (Al)	MGK32	N3R	Metallic	—	Top	Y

<sup>1</sup> 40-225 amp 1-Phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately.

## Midwest Load Centers

# Technical Data

Model Number	Weight (lbs.)	Dimensions (inches)			Knockout Figure <sup>1</sup>
		Height	Width	Depth	
ML240RCU	6-4/5	10	7-1/4	3-3/4	6
ML240SCU	4-3/10	10-1/4	5-11/16	3-3/8	1
ML270RCU	6-3/4	10	7-1/4	3-3/4	6
ML270SCU	4-1/2	10-1/4	5-11/16	3-3/8	1
ML412C	5-2/5	9	7-1/4	3	2
ML412R1	7-1/10	10	7-1/4	3-3/4	6
MLM1212CCU	14-9/10	16	14	3-3/8	8
MLM1212RCU	20-1/2	21-1/2	13	5	10
MLM1612CCU	19-1/2	19	14	3-3/4	9
MLM1620CCU	25-1/10	24-11/16	14	3-3/4	9
MLM1620RCU	27-3/5	29	13	5	10
MLM2020CCU	27	26-7/16	14	3-3/4	9
MLM2020RCU	29-1/2	33	13	5	10
MLM2412CCU	24-1/2	24-11/16	14	3-3/4	9
MLM2412RCU	22	30-3/16	14-11/16	5-1/4	10
MLM2415RCU	26	33	13	5	10
MLM3220CCU	33-1/2	33-3/16	14	3-3/4	9
MLM3220RCU	33-1/2	34-3/16	14-11/16	5-1/4	11
MLM4020CCU	37	39-3/16	14	3-3/4	9
MLM4020RCU	60	43-1/4	14-21/32	6-13/32	12
MLM612FCU	8-1/2	11-3/8	11-9/16	3-3/8	3
MLM612RCU	10	11-1/8	11-1/4	3-1/4	7
MLM612SCU	9-1/4	11-3/8	11-9/16	3-3/8	3
MLM812FCUD	9	11-3/8	11-9/16	3-3/8	3
MLM812RCU	10	11-1/8	11-1/4	3-1/4	7
MLM812SCUD	9	11-3/8	11-9/16	3-3/8	3
MM820RCUFL	28	28-11/16	12-1/2	4-5/8	5
MPL412R	2-1/2	9-7/32	7-1/2	3-5/16	4

<sup>1</sup> Knockout Figures on page 6.

# Knockout Configurations

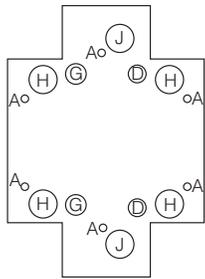


Fig. 1

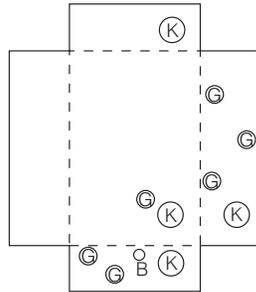


Fig. 2

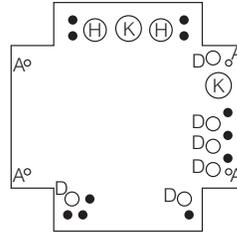


Fig. 3

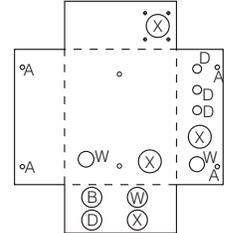


Fig. 4

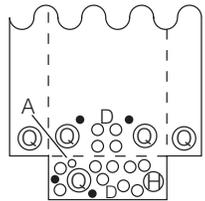


Fig. 5

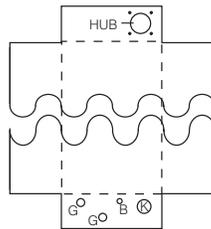


Fig. 6

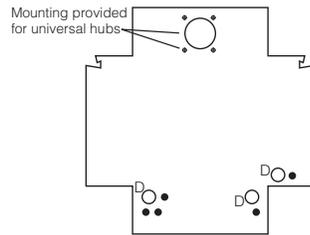


Fig. 7

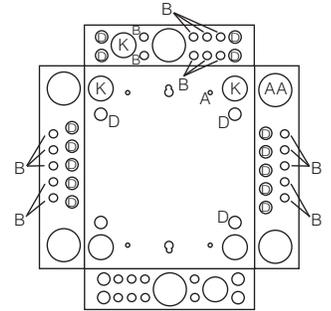


Fig. 8

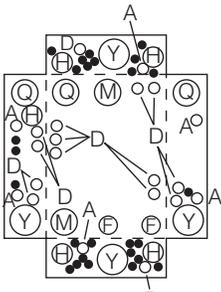


Fig. 9

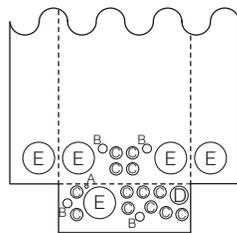


Fig. 10

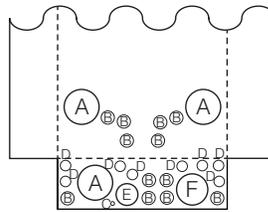


Fig. 11

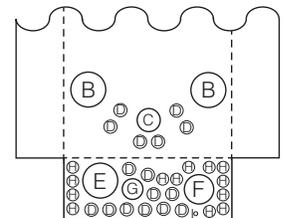


Fig. 12

**Knockout Key**

- A = 5/16
- = 3/8, 1/2
- B = 1/2
- C = 3/8, 1/2, 3/4
- D = 1/2, 3/4
- E = 3/4
- F = 1/2, 3/4, 1, 1-1/4, 1-1/2
- G = 1/2, 3/4, 1
- H = 1/2, 3/4, 1, 1-1/4

- I = 9/32
- J = 3/4, 1, 1-1/4
- K = 3/4, 1, 1-1/4, 1-1/2
- M = 1, 1-1/4, 1-1/2, 2
- Q = 1, 1-1/2, 2, 2-1/2
- W = 3/4, 1
- X = 1-1/4, 1-1/2
- Y = 1, 1-1/4, 1-1/2, 2, 2-1/2
- AA = 2-1/2, 3, 3-1/2, 4

\* Knockouts shown for size not for exact positions.

## Midwest Load Centers

# Accessories

### Equipment Ground Kits

Model Number	Wire Range (AWG/kcmil)
MGL1	(4) 14-8Cu/12-8AL (3) 14-4CU/6-4AI
MGL2 <sup>1</sup>	(8) 14-8Cu/12-8AL (6) 14-4CU/6-4AI
MGL8 <sup>1</sup>	(7) 14-8Cu/12-8AL, (3) 14-4Cu/6-4AL, (2) 14-4CU/12-4AI, (1) 14-2Cu/AI
MGL20 <sup>2</sup>	(1) 6-2/0Cu/AI Number of Terminals, Equipment Ground Kits
MNG3	(3) 10-1/0Cu/AI Number of Terminals for 400 and 600 Amp
MNG6	(6) 10-1/0Cu/AI Number of Terminals for 400 and 600 Amp

<sup>1</sup> MGL2 and MGL8 mount interchangeably.

<sup>2</sup> Add-on Equipment Ground Lug (for use on any MGL Kit).



MGL2



MGL20 Combined with MGL1

### Equipment Ground and Isolated Ground Kits<sup>1</sup>

Model Number	Description
MGK4	4-hole Ground
MGK12	12-hole Ground
MGK24	24-hole Ground
MGK32	32-hole Ground
MGK42	42-hole Ground

<sup>1</sup> Add TGK8 for isolated ground and mount to ground kit.



MGK12

### Neutral Kits

Model Number	Wire Range	Description
MNLK20	6-2/0	Mounted on top of neutral only
MNLK250		



MNLK20

### Neutral/Ground Kits

Mounted on any neutral or ground position by removing the termination screw

Model Number	Wire Range	Description
MLK20	6-2/0	Neutral/Ground Lug Kit
MLK250	6-250	
MLK300	6-300	



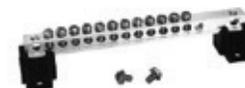
MLK20



MLK250

### Isolated Ground Bar Equipment Ground Kits

Model Number	Description
MGKIS	Isolated Ground Bar Kit (order with MGK Equipment Ground Kits)
MGKIS2	Isolated Ground Bar Feet (order with TGK8)



MGK12 with MGKIS

### Subfeed Lug Kits

Model Number	Description
MHLK2125	125A 2 Pole Plug-in
MHLK2150	150A 2 Pole Plug-in
MHLK2200	200A 2 Pole Plug-in



MHLK2125

## Midwest Load Centers

# Accessories

## Raintight (Bolt-on) Hubs

### Threaded

Hub Opening (inches)	Midwest Hub Number	Universal Hub Number
3/4	B07	—
1	B10	—
1-1/4	B12	—
1-1/2	B15	—
2	B20	U27
2-1/2	B25	U28
3	—	U30
3-1/2	—	U35
4	—	U40
Closure Plate <sup>1</sup>	B01	U04



<sup>1</sup> Closure Plate is standard with most Midwest products.

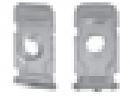
# Accessories

## Service Barrier Kits

Model Number	Description
M2100SB	THQL21100 Service Barrier
M2200LSB	BJ2200/BJ22150 Lug Service Barrier
M2201SB	TQD22200 Service Barrier
M2201SBP	TQD22200 Service Barrier Plug
M2201SBR	TQD22200 Service Barrier 100-125A Reducer
MBSB	MSLC Bus Service Barrier
MHQLRK	MB Retainer and Service Barrier Kit
MHQLRK1	MB Retainer and Service Barrier Kit
MHQLRK2	MB Retainer and Service Barrier Kit
MHQLRK3	MB Retainer and Service Barrier Kit
MHQLRK4	MB Retainer and Service Barrier Kit
MHQMVSBF	Service Barrier Flapper
MLSB	MSLC Lug Service Barrier
MLSB2P	MSLC Service Barrier 2P Module
MLSBF	MSLC Service Barrier Lug Bus Filler
MLSBR	MSLC Lug Service Barrier Reverse Feed
MLSBS	MSLC Lug Service Barrier Shutter
MSB	2/4 Sockets Service Barrier



M2200LSB



MHQMVSBF



MBSB



MLSB



MHQLRK



MLSB2P



MHQLRK1



MLSBF



MHQLRK2



MLSBR



MHQLRK3



MLSBS



MHQLRK4

## Circuit Breakers

# Application Information

We offer a full line of GE circuit interrupters which includes Dual Function (DFCI), Ground Fault (GFI), Combination Arc Fault (AFCI), 1" and 1/2" breaker to meet all of your electrical installation needs.

The Dual Function (DFCI), Ground Fault (GFI) and Combination Arc Fault (AFCI) Circuit Interrupter features cutting edge technology and offers ground fault and arc fault circuit interruption in one unit. It meets the recent NEC requirements for use on kitchen and laundry room circuits. The Combination Arc Fault (AFCI) circuit interrupters allow sharing of neutrals that help to eliminate the need to run a second neutral cable. The Ground Fault with Self-Test (GFT) includes functionality required by UL which automatically runs diagnostic testing on a periodic basis.



THQL2140



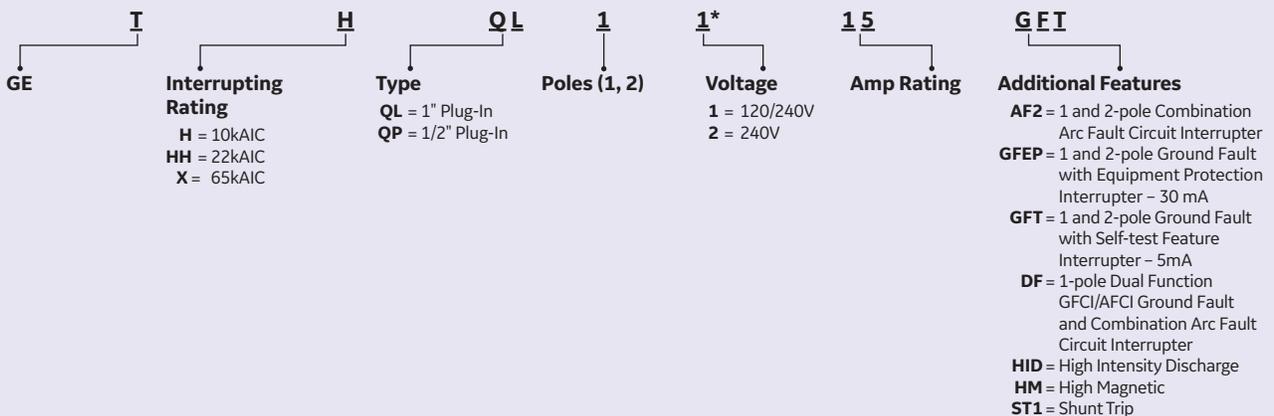
THQL1120AF2



THQL1115DF



THQL2120GFT



\* Omit character for THQP breakers, which are all 120/240V.

## Circuit Breakers

### Q-Line Plug-in

- UL Listed Molded Case Circuit Breakers No. 489
- Federal Government Specification Qualified WC-375B
- 60°C/75°C Conductor Rating
- Quick make, quick break
- Box type terminals



THQP130



THQP230



THQL1120



THQL2140

### One Pole / Two Pole, 15 – 125 Amps, 120/240VAC

Amps	10,000 AIC		22,000 AIC	65,000 AIC	UL
	Model Number		Model Number	Model Number	
	1/2" Module	1" Module	1" Module	1" Module	
<b>One Pole<sup>1</sup></b>					
15 <sup>2</sup>	THQP115	THQL1115	THHQL1115	TXQL1115	Y
20 <sup>2</sup>	THQP120	THQL1120	THHQL1120	TXQL1120	
25	THQP125	THQL1125	THHQL1125	TXQL1125	
30	THQP130	THQL1130	THHQL1130	TXQL1130	
35	THQP135	THQL1135	THHQL1135	—	
40	THQP140	THQL1140	THHQL1140	—	
45	THQP145	THQL1145	THHQL1145	—	
50	THQP150	THQL1150	THHQL1150	—	
<b>Two Pole<sup>3</sup> (Incorporates Internal Common Trip Bar)</b>					
15	THQP215	THQL2115	THHQL2115	TXQL2115	Y
20	THQP220	THQL2120	THHQL2120	TXQL2120	
25	THQP225	THQL2125	THHQL2125	TXQL2125	
30	THQP230	THQL2130	THHQL2130	TXQL2130	
35	THQP235	THQL2135	THHQL2135	—	
40	THQP240	THQL2140	THHQL2140	—	
45	THQP245	THQL2145	THHQL2145	—	
50	THQP250	THQL2150	THHQL2150	—	
60	—	THQL2160	THHQL2160	—	
70	—	THQL2170	THHQL2170	—	
80	—	THQL2180	THHQL2180	—	
90	—	THQL2190	THHQL2190	—	
100	—	THQL21100	THHQL21100	—	
110	—	THQL21110	THHQL21110	—	
125	—	THQL21125	THHQL21125	—	

<sup>1</sup> UL Listed as HACR (heating, air conditioning and refrigeration).

<sup>2</sup> UL Listed as SWD (switching duty). Suitable for 120V AC fluorescent lighting loads

<sup>3</sup> 15 - 100 amp, UL Listed as HACR (heating, air conditioning and refrigeration).

### Circuit Interrupters Wire Size

Breaker Type	Amps	Wire Range (AWG/kcmil <sup>1</sup> )	
		Copper	Aluminum
THQP	15-25	14-8	14-8
	30-50	8-4	8-4
THQL, THHQL, TXQL	15-30	14-8	14-8
	35-60	8-3	8-3
	70-100	6-1/0	6-1/0
	110-125	2-2/0	2-2/0

<sup>1</sup> Solid or stranded for 14-10 AWG.

## Circuit Breakers

### Main Breaker Kits

For Use with 125 Amp Load Centers

Amps	Model Number	Lug Wire Size (AWG/kcmil) Cu/Al	UL
—	MQMH000 <sup>1</sup>	—	Y

<sup>1</sup> Order breaker separately. See Main Breaker table below.



### 100 – 225 Amps

Amps	Model Number <sup>2</sup>	Lug Wire Size (AWG/kcmil) Cu/Al	UL
100	THQMV100D	1-300 (Cu), 2/0-300 (Al)	Y
125	THQMV125D		
150	THQMV150D		
175	THQMV175D		
200	THQMV200D		
225	THQMV225D		

<sup>2</sup> Includes a breaker and mounting base.



### Main Breakers

Two Pole<sup>1,2</sup>, 15 – 125 Amps, 120/240VAC

Amps	10,000 AIC	22,000 AIC	UL
	Model Number	Model Number	
	1" Module	1" Module	
15	THQL2115	THHQL2115	Y
20	THQL2120	THHQL2120	
25	THQL2125	THHQL2125	
30	THQL2130	THHQL2130	
35	THQL2135	THHQL2135	
40	THQL2140	THHQL2140	
45	THQL2145	THHQL2145	
50	THQL2150	THHQL2150	
60	THQL2160	THHQL2160	
70	THQL2170	THHQL2170	
80	THQL2180	THHQL2180	
90	THQL2190	THHQL2190	
100	THQL21100	THHQL21100	
110	THQL21110	THHQL21110	
125	THQL21125	THHQL21125	



<sup>1</sup> 15 - 100 amp, UL Listed as HACR (heating, air conditioning and refrigeration).

<sup>2</sup> Incorporates internal common trip bar.

## Circuit Breakers

### Arc Fault

- UL Listed Molded Case Circuit Breakers No. 489
- UL Listed Arc Fault Circuit Interrupters No. 1699

#### One Pole<sup>1,2</sup>, 15 – 20 Amps, 120/240VAC

Amps	10,000 AIC		22,000 AIC		UL
	Model Number		Model Number		
15	THQL1115AF2		THHQL1115AF2		Y
20	THQL1120AF2		THHQL1120AF2		



THQL1120AF2

<sup>1</sup> Combination AFCI compliant with 2008 NEC and later requirements.

<sup>2</sup> For two pole shared neutral applications, use (2) one pole circuit breakers with a handle tie.

### Dual Function GFCI/AFCI Ground Fault and Combination Arc Fault Circuit Breaker

- UL Listed Molded Case Circuit Breakers No. 489
- UL Listed Arc Fault Circuit Interrupters No. 1699
- UL Listed Ground Fault Circuit Interrupters No. 943 ed5 (5 milliamperes)

#### One Pole, 15 – 20 Amps, 120VAC

Amps	10,000 AIC		22,000 AIC		UL
	Model Number		Model Number		
15	THQL1115DF		THHQL1115DF		Y
20	THQL1120DF		THHQL1120DF		



THQL1115DF

### Ground Fault with Self-Test Feature

- UL Listed Ground Fault Circuit Interrupters No. 943 ed5 (5 milliamperes)

#### One Pole / Two Pole<sup>1</sup>, 15 – 50 Amps, 120VAC or 120/240VAC

Amps	10,000 AIC		22,000 AIC		UL
	Model Number				
	One Pole – 120VAC	Two Pole – 120/240VAC	One Pole – 120VAC		
15	THQL1115GFT	THQL2115GFT	THHQL1115GFT		cULus
20	THQL1120GFT	THQL2120GFT	THHQL1120GFT		
25	THQL1125GFT	THQL2125GFT	THHQL1125GFT		
30	THQL1130GFT	THQL2130GFT	THHQL1130GFT		
40	—	THQL2140GFT <sup>1</sup>	—		
50	—	THQL2150GFT <sup>1</sup>	—		



THQL2120GFT

<sup>1</sup> UL and CSA.

### Ground Fault with Equipment Protection

- UL Listed Ground Fault Circuit Interrupters No. 943 (30 milliamperes ground fault trip level)

#### One Pole / Two Pole<sup>1</sup>, 15 – 30 Amps, 120VAC or 120/240VAC

Amps	10,000 AIC		UL
	Model Number		
	One Pole – 120VAC	Two Pole – 120/240VAC	
15	THQL1115GFEP	THQL2115GFEP	cULus
20	THQL1120GFEP	THQL2120GFEP	
30	THQL1130GFEP	THQL2130GFEP	



THQL2115GFEP

## Circuit Breakers

### HID Lighting

- UL Listed as HID
- HID breakers are designed to handle the current and voltage spikes that result when gaseous discharge lamps, including fluorescent and HID, are switched on and off

#### One Pole / Two Pole, 15 – 30 Amps, 120VAC or 120/240VAC

Amps	10,000 AIC		22,000 AIC		UL
	Model Number		Model Number		
	One Pole – 120VAC	Two Pole – 120/240VAC	One Pole – 120VAC	Two Pole – 120/240VAC	
15	THQL1115HID	THQL2115HID	THHQL1115HID <sup>1</sup>	THHQL2115HID	Y
20	THQL1120HID	THQL2120HID	THHQL1120HID <sup>1</sup>	THHQL2120HID	
30	THQL1130HID	THQL2130HID	THHQL1130HID	THHQL2130HID	



<sup>1</sup> UL Listed as SWD (switching duty). Suitable for 120 volts ac fluorescent lighting loads.

### High Magnetic

- UL Listed Molded Case Circuit Breakers No. 489
- High short circuit rating suitable for circuits with inherent high in-rush load currents

#### One Pole, 15 – 50 Amps, 120VAC

Amps	10,000 AIC	UL
	Model Number	
15	THQL1115HM	Y
20	THQL1120HM	
25	THQL1125HM	
30	THQL1130HM	
40	THQL1140HM	
50	THQL1150HM	



### THQL with Factory Installed Shunt

- UL Listed Molded Case Circuit Breakers No. 489
- Shunt trip requires one additional pole of space

#### One Pole / Two Pole, 15 – 100 Amps, 120/240VAC or 240VAC

Amps	10,000 AIC		UL
	Model Number <sup>1</sup>		
	One Pole – 120/240VAC	Two Pole <sup>2</sup> – 240VAC	
15	THQL1115ST1	THQL2115ST1	Y
20	THQL1120ST1	THQL2120ST1	
30	THQL1130ST1	THQL2130ST1	
35	THQL1135ST1	THQL2135ST1	
40	THQL1140ST1	THQL2140ST1	
45	THQL1145ST1	THQL2145ST1	
50	THQL1150ST1	THQL2150ST1	
60	—	THQL2160ST1	
70	—	THQL2170ST1	
80	—	THQL2180ST1	
90	—	THQL2190ST1	
100	—	THQL21100ST1	



<sup>1</sup> Solid or stranded for 14-10 AWG.

<sup>2</sup> Internal common trip.

Midwest Electric Products  
41 Woodford Avenue  
Plainville, CT 06062  
Customer Service: 866-685-0577  
Fax: 804-965-1041  
[www.midwestelectric.com](http://www.midwestelectric.com)  
© 2017 Midwest Electric Products  
MET-049C (3/17)

Information provided is subject to change without notice. Please verify all details with Midwest Electric Products. All values are design or typical values when measured under laboratory conditions, and Midwest makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

