

# Load Centers and Circuit Breakers

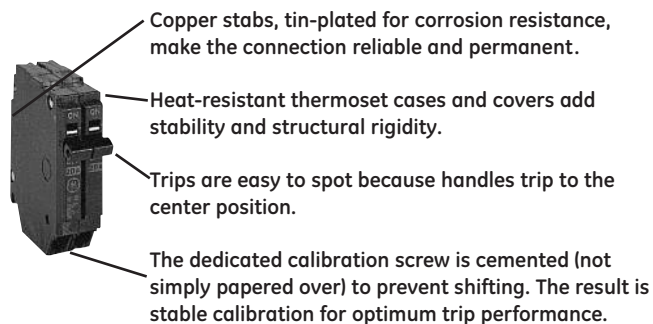
## Q-Line Circuit Breakers

Reliability and Economy

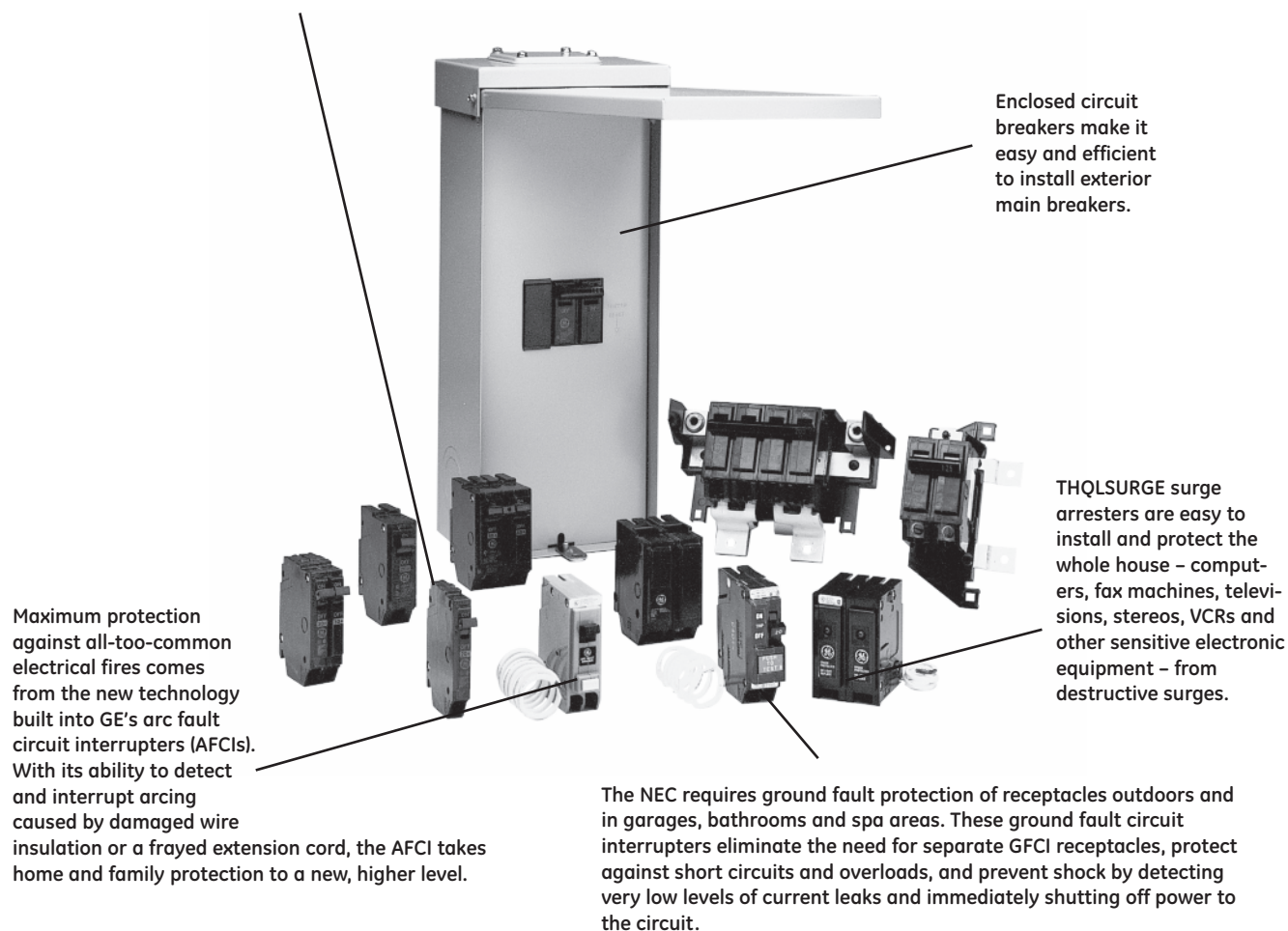
## Section 1

### Special Purpose Circuit Breakers

- PowerMark Gold Main Circuit Breakers
- Arc Fault Circuit Interrupter
- Dual Function GFCI/AFCI Ground Fault & Combination Arc Fault Circuit Breaker
- Ground Fault with Self-Test Feature
- Ground Fault with Equipment Protection
- Switching Neutral
- HID Lighting Breaker
- High Magnetic Breaker
- Molded Case Switch
- Surge Arrester
- TQ Breaker



At 1/2", THQP breakers are half the width of standard breakers, permitting the use of smaller load centers that save money and space in both new construction and service upgrades. They feature the same high-performance design, and meet the same stringent standards as other Q-Line breakers. Our 1" THQL will remain the breaker of choice for many contractors. In applications where space and cost are not critical, they're an excellent choice. But when size and money are driving considerations, THQP breakers are the smart choice.



# Load Centers and Circuit Breakers

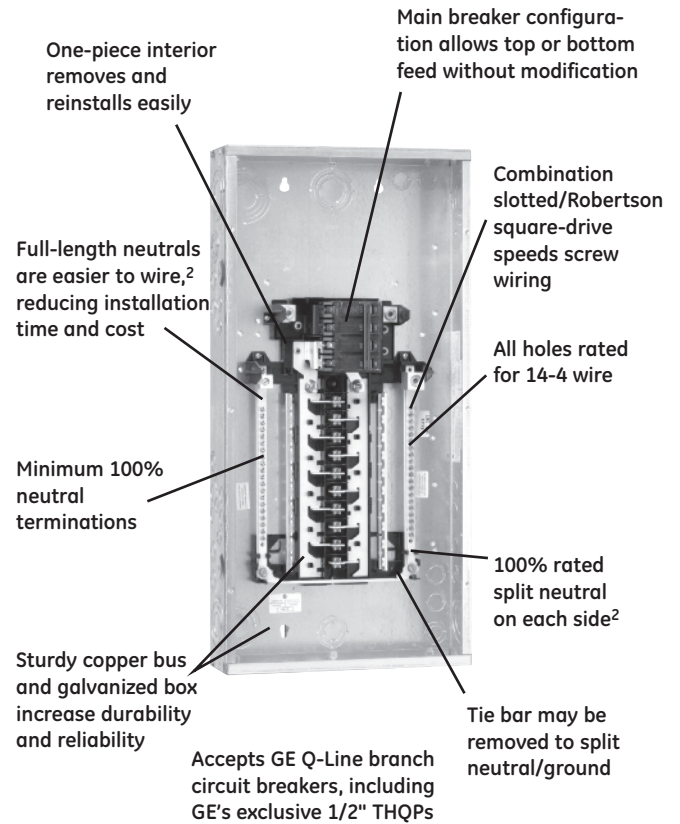
## PowerMark Gold Load Centers

Highest Quality and Convenience

## Section 1

PowerMark Gold 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.

- UL Listed (Panelboards No. 67)
- 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 lug models field convertible to main breaker
- Main breaker 22kAIC standard - factory installed
- All load centers top or bottom feed
- Indoor and outdoor rated enclosures
- Indoor fronts combination surface/flush
- Copper bus with tin plating standard<sup>1</sup>
- Split neutrals extend the full length of the interior for ease of wiring
- Entire main lug line converts easily to main breaker
- Combination surface/flush front with spring-reinforced pan
- Combination slotted/Robertson square-drive screws on neutral,<sup>2</sup> ground, front and breaker lugs
- Front packed in inner carton for added protection
- 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



Packaging features comprehensive selection and application data. Fronts are packed in inner cartons for added protection during shipment and at the job site.

A complete family of meter socket load centers — ring style and ringless, wide and narrow, meter mains, farm panels and more — deliver specialized solutions for special situations.

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.

The PowerMark Gold line includes a wide range of outdoor as well as indoor units.

GE's residential load centers reach into commercial applications as well, with riser panels, auxiliary gutters, three-phase units with standard 22kAIC ratings, and all the accessories needed to complete the job.

### Accessories and Options

- Door lock and handle
- Equipment ground kits
- Sub-feed and feed-thru lugs
- Front filler plates
- Handle lock and ties
- Hardware kits
- Main breaker retainers
- Neutral kits
- Universal raintight hubs

<sup>1</sup>Three-phase PowerMark Plus load centers have aluminum bus with copper breaker mounting stabs.

<sup>2</sup>16 circuit and above.

### Safety accessories – convenient and easy to install

- THQLSURGE whole house surge protector
- Arc fault circuit interrupter breaker, 1- or 2-pole
- Ground fault circuit interrupter breaker, 5mA and 30mA
- Generator transfer panel – 30A or 60A, indoor or outdoor
- GE AC disconnects



# Load Centers and Circuit Breakers

## PowerMark Gold and Plus Load Centers

Product Number Guides

## Section 1

### Product Number Guide for Load Centers

(Product number for illustrative purposes only)

		T	M	42	4	20	C	CU	B
GE Identification									
Type									
M = Main breaker									
L = Main lug									
LM = Convertible									
PL = Main lug (Thermoplastic)									
Maximum Number 1" Spaces									
2, 4, 6...42									
Insert for 3-Phase 4-Wire									
Load Centers									

# Load Centers and Circuit Breakers

## PowerMark Plus™ Load Centers

### Three-Phase, Four-Wire, 208Y/120 Vac<sup>2</sup>

Main Lugs Factory Installed

## Section 1

Load Center  
3PH  
Main Lugs  
Indoor NEMA 1

### Product Features

- UL Listed (Panelboards No. 67)
- 60°/75°C Conductor Rating
- Suitable for Use as Service Entrance Equipment when Installed in Accordance with the National Electrical Code
- 22kAIC RMS symmetrical Short-circuit Rating Standard
- Bottom feed models available where noted with a “B” suffix.
- For a listing of CSA Listed load centers, visit [geindustrial.com](http://geindustrial.com).
- Copper breaker mounting stabs with aluminum bus<sup>1</sup>

### Indoor (NEMA 1) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	3 Pole, 1" Spaces	Total 1-pole Spaces	Front Type	Feed Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
125	12	6	4	12	Combination Flush/Surface Front	Top Bottom	4	6-2/0	TGK12 (order separately) TGK24 (order separately)	TL12412C <sup>3</sup>
150	18	8	6	18	Combination Flush/Surface Front	Top Bottom	7	1-3/0 (Cu), 2/0-3/0 (Al)	TGK24 (order separately) TGK32 (order separately)	TL18415C <sup>3</sup>
150	24	12	8	24	Combination Flush/Surface Front	Top Bottom	7	1-3/0 (Cu), 2/0-3/0 (Al)	TGK24 (order separately) TGK32 (order separately)	TL24415C <sup>3</sup>
200	18	8	6	18	Combination Flush/Surface Front	Top Bottom	8	1-250 (Cu), 2/0-250 (Al)	TGK32 (order separately)	TL18420C <sup>3</sup>
200	30	14	10	30	Combination Flush/Surface Front	Top Bottom	11	1-250 (Cu), 2/0-250 (Al)	TGK32 (order separately)	TL30420C <sup>3</sup>
200	42	20	14	42	Combination Flush/Surface Front	Top Bottom	13	1-250 (Cu), 2/0-250 (Al)	TGK42 (order separately)	TL42420C
225	30	14	10	30	Combination Flush/Surface Front	Top Bottom	15	1-300 (Cu), 2/0-300 (Al)	(2) TGL2 (order separately)	TL30422C <sup>4</sup>
225	42	20	14	42	Combination Flush/Surface Front	Top Bottom	15	1-300 (Cu), 2/0-300 (Al)	(2) TGL2 (order separately)	TL42422C <sup>4</sup>

<sup>1</sup>Three-phase PowerMark Plus load centers have aluminum bus with copper breaker mounting stabs, providing copper-to-copper contact at breaker stabs.

<sup>2</sup>Also UL Listed for three-phase, four-wire 240/120 Volts ac delta and three-phase, three-wire 240 Volts ac branch breakers installed.

<sup>3</sup>Alternate main breaker: 100 Amp max. THQL (10kAIC), THHQL (22kAIC) three-pole, use retainer THQLRK. See page 1-28.

<sup>4</sup>Not suitable for use as service entrance equipment.

**Note:** See page 11-4, AL Series Lighting Panelboards as replacements for 300-600A load centers.

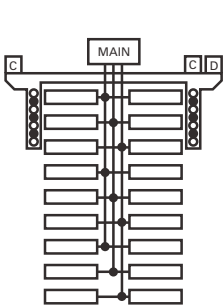


# Load Centers and Circuit Breakers PowerMark Gold and Plus Load Centers Circuit Breakers Wiring Diagrams

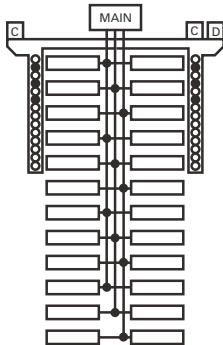
Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
	1	—
	1	2

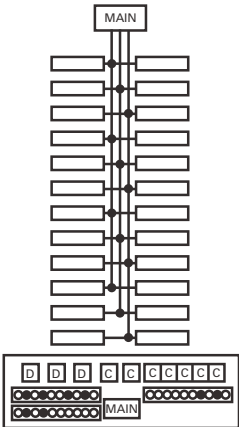
Terminal Symbol	Wire Range (AWG/kcmil)	
	Cu	Al
o	14-8	12-8
•	14-4	12-4
A	6-2	6-2
B	14-1/0	12-1/0
C	6-2/0	6-2/0
D	1-300	2/0-300
E	1-300	1-300
F	6-1	6-1
G	6-3	6-3



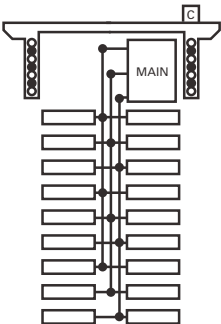
TL18415, TL18420



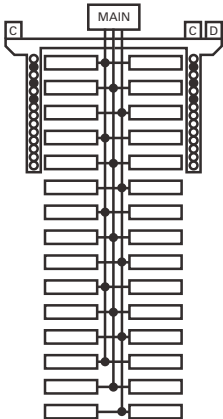
TL24415, TM24415



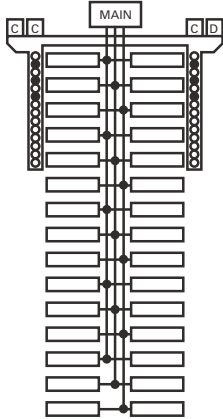
TL24440, TM24420



TM18410



TM30412



TM30415, TL30420, TM30240, TL30422

