

Load Centers and Circuit Breakers

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Load Centers and Circuit Breakers

Special Purpose Circuit Breakers

60°C / 75°F Conductor Rating

Box Type Terminals

Quick-Make, Quick-Break

Multi-pole Breakers Incorporate Internal Common Trip

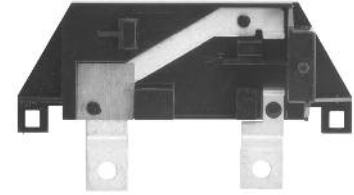
Section 1

PowerMark Gold Main Circuit Breaker Kit

For use with 125A PowerMark Gold load Centers; 22kAIC RMS symmetrical.

Description	Product Number
Main Circuit Breaker Kit - Order appropriate THQL 10kAIC or THHQL 22kAIC breakers separately	TQMH000 ¹

¹Please review the footnotes listed with the individual Load Center product numbers for proper parts needed to convert to a main circuit breaker. This main breaker base is only applicable for 16 circuit and larger 125 amp load centers, 12 circuit load centers with A C24 suffix, and the TLM812RCU2.



TQMH000

Equipment Ground Fault

UL Listed

Ground Fault Circuit Interrupters No. 943 30 milliampere ground fault trip level

Ampere Rating	1-Pole, 120/240 Volts ac	2-Pole, 120 Volts ac
	Product Number	Product Number
10,000 AIC	15 THQL1115GFEP	THQL2115GFEP
	20 THQL1120GFEP	THQL2120GFEP
	30 THQL1130GFEP	THQL2130GFEP
Std. Pkg.	10 Cartons of 1	10 Cartons of 1

Switching Neutral

UL Listed. 10kAIC RMS symmetrical.

Standard 1- or 2-pole automatic breaker plus one fully-rated, non-automatic pole.

Ampere Rating	1-Pole Plus Switching Neutral 120/240 Volts ac	2-Pole Plus Switching Neutral 120/240 Volts ac
	Product Number	Product Number
15	THQL21WY15	THQL31WY15
20	THQL21WY20	THQL31WY20
25	THQL21WY25	THQL31WY25
30	THQL21WY30	THQL31WY30
Std. Pkg.	5 cartons of 5	5 cartons of 3



THQL21WY30

"HID" Lighting

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

Ampere Rating	1-Pole, 120/240 Volts ac	2-Pole, 120/240 Volts ac
	Product Number	Product Number
10,000 AIC	15 THQL1115HID ²	THQL2115HID
	20 THQL1120HID ²	THQL2120HID
	30 THQL1130HID	THQL2130HID
22,000 AIC	15 THHQL1115HID ²	THHQL2115HID
	20 THHQL1120HID ²	THHQL2120HID
	30 THHQL1130HID	THHQL2130HID
Std. Pkg.	5 cartons of 10	5 cartons of 5

²UL Listed as SWD (switching duty). Suitable for 120 volts ac fluorescent lighting loads.

THQL2120HID

High Magnetic

UL Listed. 10kAIC RMS symmetrical

High short circuit setting suitable for circuits with inherent high-inrush load currents.

Ampere Rating	1-Pole, 120/240 Volts ac
	Product Number
15	THQL1115HM
20	THQL1120HM
25	THQL1125HM
30	THQL1130HM
40	THQL1140HM
50	THQL1150HM
Std. Pkg.	5 cartons of 10



THQL1140HM



Load Centers and Circuit Breakers

PowerMark Gold and Plus Load Centers

Single-Phase, Three-Wire, 120/240 Vac

Main Lugs Convertible to Main Breaker

Section 1

Load Center
1PH
Main Lug
Outdoor NEMA 3R

Main Lugs Factory Installed (TLM units convertible to main breaker), Outdoor (NEMA 3R) Enclosure¹

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed ¹ Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
40	2	1	4	1	4		Top	R1A	14-4	TGK4 (order separately)	TL240RCU
70	2	1	4	1	4		Top	R1A	6-3	TGK4 (order separately)	TL270RCU
100	5	0	0	0	5	Flush	Top	R41	6-3	TGL1 installed	TL510RT ^{2,8}
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 (order separately)	TL412R1 ²
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 installed	TL412RT1 ²
125	4	2	8	3	8		Top	R41	1-2/0	TGL1 (order separately)	TL412R2 ²
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 (order separately)	TPL412R ^{2,3}
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 installed	TPL412RT ^{2,3}
125	4	3	12	4	12		Top	R2A	6-1	TGK12 (order separately)	TLM612RCU ⁴
125	8	4	16	8	16		Top	R2A	6-1	TGK12 (order separately)	TLM812RCU ⁴
125	8	4	16	8	16		Top	R3A	6-1	TGK12 (order separately)	TLM812RCU ²⁵
125	14	6	20	8	24		Top	R3A	6-2/0	TGK12 (order separately) TGK24 (order separately)	TLM11212RCU ^{7,9}
125	24	12	0	0	24		Top Bottom	R4A	6-2/0	TGK24 (order separately) TGK32 (order separately)	TLM2412RCU ⁵
150	24	12	12	4	30		Top Bottom	R6A	1-3/0 (Cu), 2/0-3/0 (Al)	TGK24 (order separately) TGK32 (order separately)	TLM2415RCU ⁶
200	12	6	24	10	24		Top	R5A	6-250	TGK24 (order separately)	TLM11220RCU ⁶
200	16	8	32	14	32		Top	R5A	6-250	TGK32 (order separately)	TLM1620RCU ⁶
200	20	10	40	18	40		Top	R6A	6-250	TGK24 (order separately) TGK42 (order separately)	TLM2020RCU ⁶
200	24	12	36	18	42		Top Bottom	R39	1-250 (Cu), 2/0-250 (Al)	TGK24 (order separately)	TLM2420R42
200	32	16	16	6	40		Top Bottom	R7A	1-250 (Cu), 2/0-250 (Al)	TGK32 (order separately)	TLM3220RCU ⁶
200	40	20	0	0	40		Top Bottom	R8A	6-250	TGK42 (order separately)	TLM4020RCU ⁶
225	42	20	0	0	42		Top Bottom	R8A	1-300 (Cu), 2/0-300 (Al)	TGK42 (order separately)	TLM4222RCU ⁶

¹40-225 amp single-phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately. See page 1-27.

²10 kAIC.

³125 amp maximum branch capacity.

⁴For main breaker, order THQLRK2 retainer kit plus 2-pole circuit breaker. See page 1-28, 100 amp maximum due to wire bending requirements.

⁵For main breaker, order TQMH000. See page 1-24. Also order 2-pole THQL or THHQL circuit breaker. See page 1-5.

⁶For main breaker, order THQMVXXXD circuit breaker from page 1-6.

⁷For main breaker applications, use reverse feed THQL or THHQL circuit breaker (see page 1-5) and THQLRK3 breaker retainer (see page 1-28).

⁸Main and branch breakers are limited to 70 amps.

⁹Load center includes a factory installed ground bar and add-a-lug. See wiring diagram on page 1-30. A separate TGL2 can be added in the unlikely event that another ground bar is required.

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

Field Installed Accessories

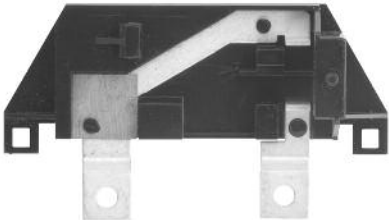
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TQMH000

PowerMark Plus™ Equipment Ground Kits

Description	Standard Package Quantity	Product Number
(4) 14-8Cu/12-8AL, (3) 14-4Cu/6-4AL	20	TGL1
(8) 14-8Cu/12-8AL, (6) 14-4Cu/6-4AL	20	TGL2 ¹
(7) 14-8Cu/12-8AL, (3) 14-4Cu/6-4AL, (2) 14-4Cu/12-4AL, (1) 14-2Cu/AL	20	TGL8 ¹
(1) 6-2/0Cu/Al Number of Terminals, Equipment Ground Kits	20	TGL20 ²
(3) 10-1/0 Cu/Al Number of Terminals for 400 and 600 Amp	1	TNG3 ³
(6) 10-1/0 Cu/Al Number of Terminals for 400 and 600 Amp	1	TNG6 ⁴

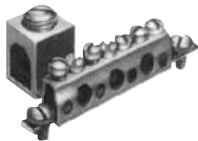
¹TGL2, TGL4 and TGL8 mount interchangeably

²Add-on Equipment Ground Lug (for use on any TGL Kit)

³Suitable for use with up to six TPLUG108 lugs or six crimp lugs per pole



TGL2



TGL20 combined with TGL1

PowerMark Gold Equipment Ground and Isolated Ground Bar Kits^{4,5}

Description	Standard Package Quantity	Product Number
4-hole Ground	1	TGK4
12-hole Ground	1	TGK12
24-hole Ground	1	TGK24
32-hole Ground	1	TGK32
42-hole Ground	1	TGK42

⁴6-12 circuit indoor load centers use PowerMark Plus style neutrals and grounds

⁵Add TGKIS for isolated ground and mount to ground kit.



TGK12



TGK12 with TGKIS



Load Centers and Circuit Breakers

PowerMark Gold and Plus Load Centers

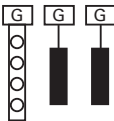
Circuit Breakers

Wiring Diagrams

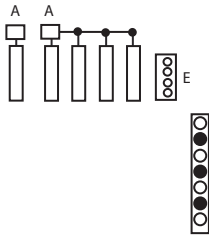
Section 1

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

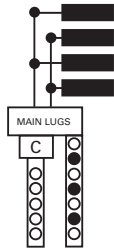
Terminal Symbol	Wire Range (AWG/kcmil)	
	Cu	Al
o	14-8	12-8
•	14-4	12-4
A	6-2	6-2
B	14-1/0	12-1/0
C	6-2/0	6-2/0
D	1-300	2/0-300
E	1-300	1-300
F	6-1	6-1
G	6-3	6-3



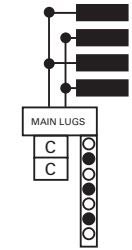
TL240SCU, RCU
TL270SCU, RCU



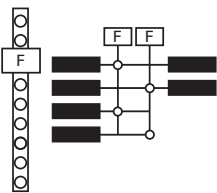
TL510RT



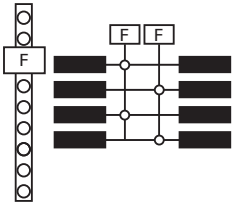
TPL412C, TL412C, TPL412R, TL412R1,
TL412R2, TL412R250GF, TL412R260GF



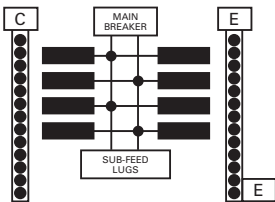
TPL412CT, TL412CT
TPL412RT, TL412RT1



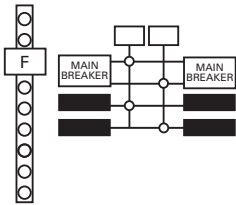
TLM612FCU, SCU
FCUD, SCUD, RCU



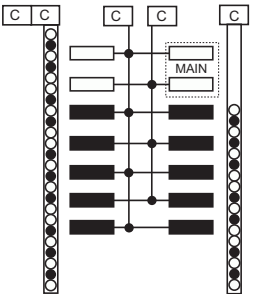
TLM812FCU, SCU,
FCUD, SCUD, RCU



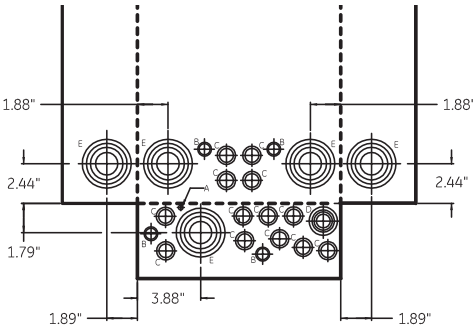
TM815RCUFL
TM820RCUFL



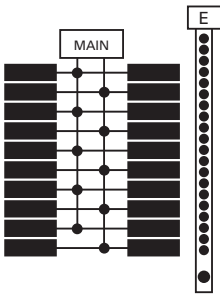
TM860FCUGEN, TLM830FCUGEN,
TM860SCUGEN, TLM830SCUGEN,
TM860RCUGEN, TLM830RCUGEN



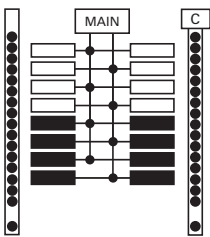
TM1210CCU, TM1212CCU, TLM1212CCU



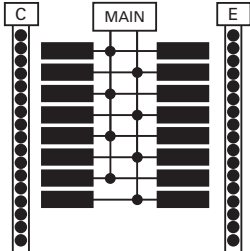
TM1210RCU, TM1212RCU, TLM1212RCU



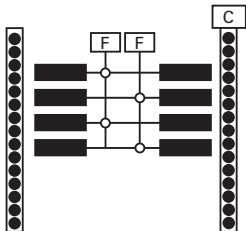
TLM2012CCURP



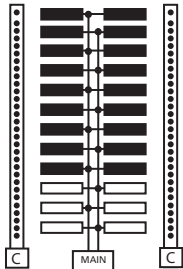
TLM1612CCU, TM1612CCU, TM1612RCU



TM1615CCU, TM1615RCU, TM1620CCU,
TLM1620CCU, TLM1620RCU



TLM812RCU2



TM2420R42B

