

KOHLER[®] POWER SYSTEMS



INSTALLATION INSTRUCTIONS

Circuit Breaker Kits 14-24CCOZ Marine, 7-20CCOZ RV/Mobile Three-Phase Generator Sets

Circuit Breaker Kits	Amperage Rating	Voltage Max.
PA-225669	25	600
PA-225670	15	600
PA-225673	12	600
PA-229243*	60	240
PA-229244*	80	240
PA-229400*	50	240
PA-229401*	70	240
PA-260107	50	480
PA-260108	60	600
PA-260109	30	600
PA-260110	40	600
PA-260111	20	600
PA-260113	70	600

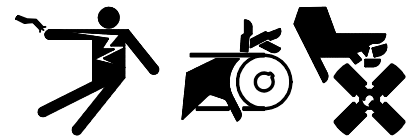
* 2-pole breakers used with single-phase configuration on 12-lead generator sets

Figure 1. Circuit Breaker Ratings

The circuit breaker protects the generator set from extreme overload. The circuit breaker is intended to be mounted in generator set controller. The correct circuit breaker amperage is determined by the generator set voltage configuration. If the circuit breaker was sized for one voltage configuration and at a later time the generator set is reconnected to a different voltage, the circuit breaker may need to be changed to provide optimum protection.

This instruction provides the circuit breaker kit numbers. For application and selection information contact an authorized Kohler dealer/distributor.

WARNING

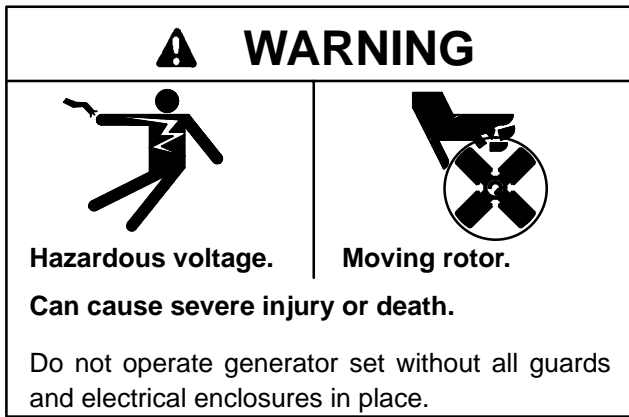


Accidental starting.

Can cause severe injury or death.

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

Accidental starting can cause severe injury or death. Disconnect battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. The generator set can be started by remote start/stop switch unless this precaution is followed.



Hazardous voltage can cause severe injury or death. Perform electrical service only as prescribed in equipment manual. Be sure that generator is properly grounded. Never touch electrical leads or appliances with wet hands, when standing in water, or on wet ground as the chance of electrocution is especially prevalent under such conditions. Wiring should be inspected at the interval recommended in the service schedule—replace leads that are frayed or in poor condition. The function of a generator set is to produce electricity and wherever electricity is present, there is the hazard of electrocution.

Hazardous voltage can cause severe injury or death. Wherever electricity is present, there is the hazard of electrocution. Take the same precautions with electrical appliances in your craft that you would observe in your home. Open main circuit breaker on all power sources before servicing equipment. Make sure unqualified persons, especially children, cannot gain access to your set—keep the compartment door locked or securely latched at all times. Be sure that generator is properly grounded. Never touch electrical leads or appliances with wet hands, when standing in water, or on wet ground as the chance of electrocution is especially prevalent under such conditions.

INSTALLATION

1. Move generator START/STOP switch to STOP position.
2. Disconnect generator set battery cables, negative lead first.

3. Remove controller cover screws and slide off controller cover.
4. Remove screws and nuts and remove circuit breaker blocking plate. Nuts and blocking plate will not be reused.
5. Install circuit breaker from the inside of controller and mount using existing screws. Position circuit breaker with ON/OFF handle in the upright position, for ON mode.
6. With stator leads connected to the proper voltage configuration, attach stator leads for L1, L2, and L3 to side of circuit breaker marked LINE. Connect stator leads used for neutral connection to L0 stud. Be sure positions of terminals and leads allow access to LOAD connection studs. See Figure 2.

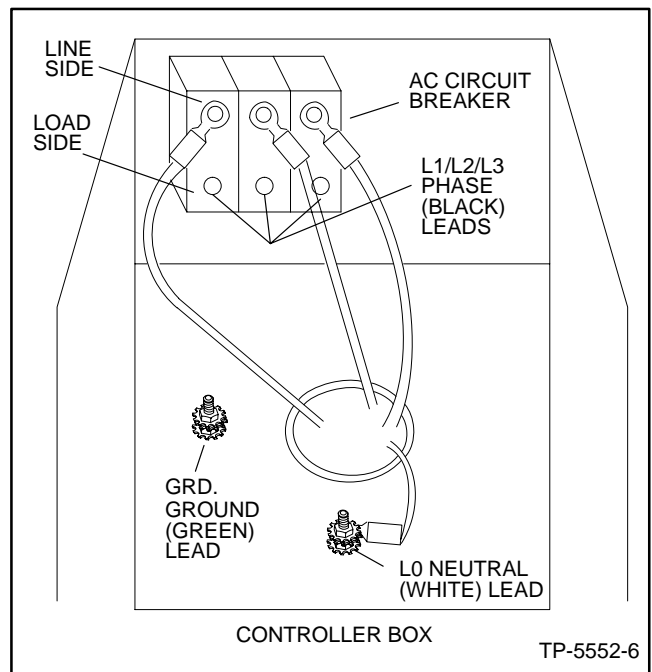


Figure 2. Circuit Breaker Mounting in Controller

NOTE

If unit has not been reconnected to the desired voltage make connections to stator leads as shown in Figure 3. Reference the Operation and Installation Manual and/or Service Manual for information regarding voltage and frequency adjustment.

- Connect side of circuit breaker marked LOAD to ship-to-shore switch or craft wiring (marine) or transfer switch or vehicle wiring (RV/mobile) using (black) leads L1, L2, and L3. Connect neutral (white) lead to L0 stud. Connect equipment ground (green) lead to GRD. stud. Observe correct phase rotation.

NOTE

All wiring must be stranded copper. Wire gauges and insulation, conductor temperature ratings, sheath stripping, conductor support and protection, conductor terminals and splices, and

overcurrent protection (circuit breakers, fuses) must conform to appropriate standards and codes. Marine applications must conform to USCG Regulations 183.425 through 183.460. Use plastic grommets and cable ties, as necessary, to protect and secure wiring from sharp objects, exhaust system, and any moving parts. Use rubber boots, as required, to insulate electrically hot breaker terminals from ground.

- Replace controller cover and secure with screws.
- Reconnect generator set battery cables, negative lead last.

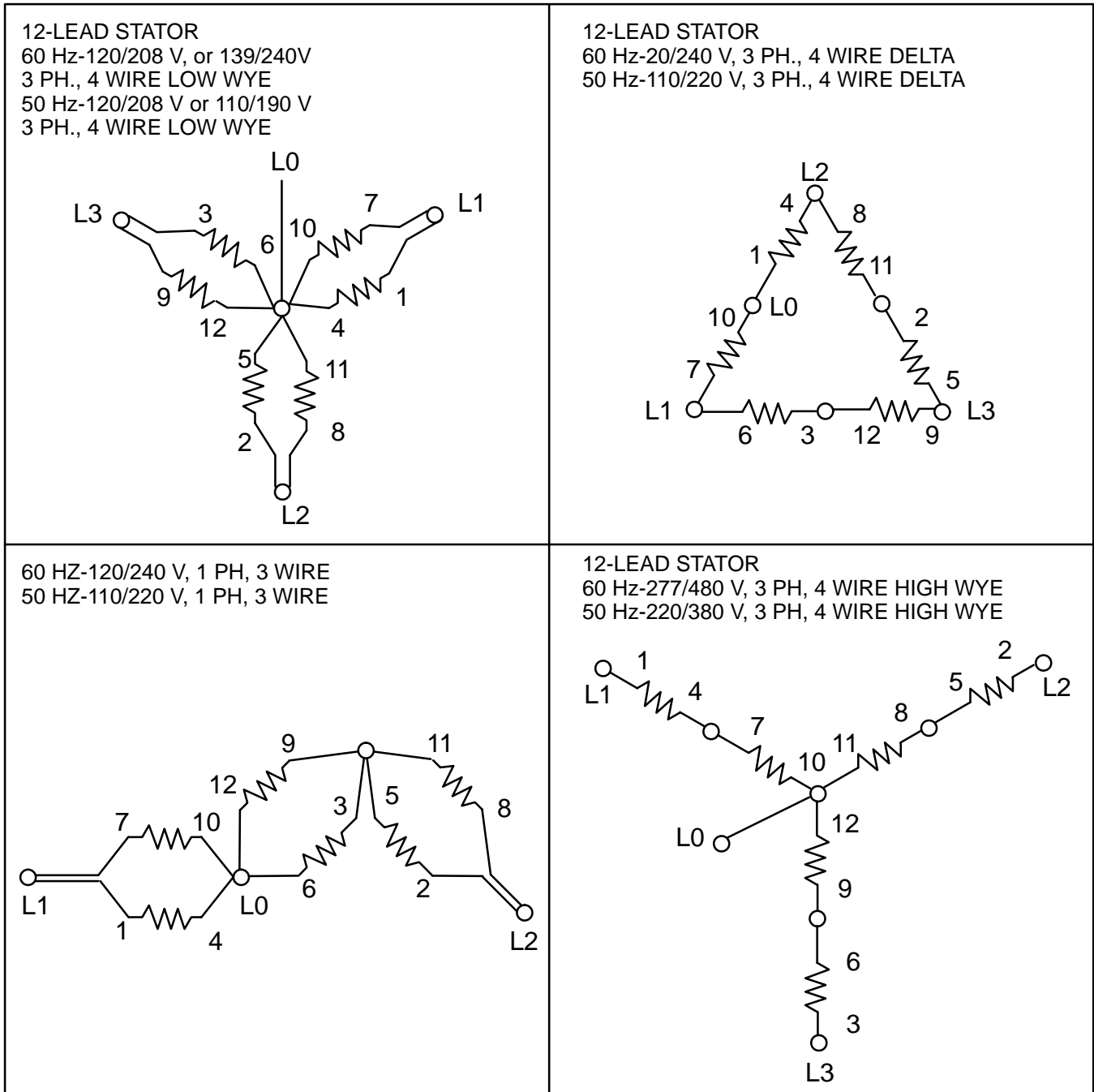


Figure 3. Voltage Reconnections

Parts List

Kits: PA-229243, PA-229244, PA-229400, and PA-229401		
Description	Qty.	Part No.
Circuit Breaker, 60 amp (Kit PA-229243)	1	229205
Circuit Breaker, 80 amp (Kit PA-229244)	1	229206
Circuit Breaker, 70 amp (Kit PA-229401)	1	229397
Circuit Breaker, 50 amp (Kit PA-229400)	1	249479
Boot (Kit PA-229244, PA-229400, and PA-229401)	4	238915
Boot (Kit PA-229243)	4	290262
Plate, cover	1	229208
Decal, notice	1	246242
Kits: PA-225669, PA-225670, PA-225673, PA-260107, PA-260108, PA-260109, PA-260110, PA-260111, and PA-260113		
Description	Qty.	Part No.
Circuit Breaker, 15 amp (Kit PA-225670)	1	220575
Circuit Breaker, 60 amp (Kit PA-260108)	1	253224
Circuit Breaker, 25 amp (Kit PA-225669)	1	225168
Circuit Breaker, 12 amp (Kit PA-225673)	1	225672
Circuit Breaker, 70 amp (Kit PA-260113)	1	258381
Circuit Breaker, 50 amp (Kit PA-260107)	1	269249
Circuit Breaker, 30 amp (Kit PA-260109)	1	269250
Circuit Breaker, 20 amp (Kit PA-260111)	1	269251
Circuit Breaker, 40 amp (Kit PA-260110)	1	269252
Decal, notice	1	246242