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Find the *Honeywell 14507287-002* at our website: ***Click HERE***

Honeywell

14507287 Power Module

EXCEL 5000® SYSTEM

INSTALLATION INSTRUCTIONS

Warning: This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the Instructions Manual, may cause interference with radio communication. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case, user at their own expense will be required to take whatever measures may be required to correct the interference. Any unauthorized modification of this equipment may result in the revocation of the owner's authority to continue its operation.

GENERAL

The 14507287-001 through -007 Power Modules are the recommended power supply for Excel 80B/B2, 100B/B2, 500, and 600 Controllers and for Q7645A Excel Link. The -001 through -006 Power Modules provide the following features:

- Allows the Excel 80B/B2 100B//B2 500 and 600 Controllers and Excel Link to pass UL864, UL916, and NFPA92A requirements as well as Honeywell's transient and surge tests.
- Line bypass capacitors to filter line voltage noises.
- Metal Oxide Varistors (MOVs) which provide protection against line voltage surges.
- Controller transformer meets the new UL "power limited" requirements.
- Isolated accessory voltage outputs (on some models) to prevent problems from "sneak" current paths.
- Independent ON/OFF switch for each transformer.
- AC convenience outlet.
- Separate fuses for each output.
- On 14507287-003 and 14507287-006 models, the DC output is precisely regulated by a 16-pin regulator.
- Provides screw terminal strips for secure line and low voltage connections.
- Provides socket for coded controller power cable with integral ground wire.
- Heavy gauge metal chassis securely supports all components and requires only four mounting screws.
- Provides all line voltage barriers and insulators to prevent electrical shock and meet electrical codes.

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BEFORE INSTALLATION

1. The 14507287 Power Module is available in seven models (Table 1).
2. Unpack 14507287 Power Module. Check equipment and report any damage to a Honeywell representative.
3. Installation requires four No. 8 mounting screws (not supplied). Mounting hardware must match the mounting surface at the job site.
4. Power Modules -001 through -006 include a 14507063-002 Power Cable with connectors on both cable ends for connection to an Excel 500 or 600 Controller.
5. Mounting hardware is provided with the -007 Module.

   For connection to an Excel 80B/B2 or 100B/B2 Controller, XM100A Modem Device, or Excel Link, cut off connector on one end of cable, tin wire ends, and connect to terminals.

Table 1. Power module models.

14507287 Power Modules[1]						
	Max Input			Controller V ac Output	Accessory Output	Convenience Outlet
Model	Vac	Current Draw	Hz			
-001	120	0.5 A	50/60	24	—	120 Vac
-002	120	1.7 A	50/60	24	24 Vac, 100 VA/ 40 VA	120 Vac
-003	120	1.7 A	50/60	24	24 Vac, 100 VA; 24 Vdc, 600 mA	120 Vac
-004	240/220	0.3 A	50/60	24	—	220/240 Vac
-005	240/220	0.8 A	50/60	24	24 Vac, 100 VA/40 VA	220/240 Vac
-006	240/220	0.8 A	50/60	24	24 Vac, 100 VA; 24 Vdc, 600 mA	220/240 Vac
-007	120	0.5 A	50/60	24	—	—

[1]IMPORTANT: 240/220 Vac Power Modules are factory strapped for 240 Vac. To restrap for 220 Vac, see the Strapping section and Figure 1. If necessary, restrap the Power Module before mounting. Figures 2 and 3 show dimensions and typical wiring.

INSTALLATION

Strapping (for 220 Vac only)

NOTE: Skip this section for 120 Vac Power Modules (14507287-001, -002, and -003).
240/220 Vac Power Modules (145072878-004, -005, and -006) are factory strapped for 240 Vac operation.
For 220 Vac operation, use the following instructions to restrap 240/220 Vac Power Module.

❶ Remove screws and fold back insulator.

❷ On **controller** transformer in 14507287-004, -005, and -006 Power Modules (Fig. 1):

- — Remove quick-connect cover on Terminal 2.
- — Move wired quick-connect from Terminal 3 (240 V) to Terminal 2 (220 V).
- — Attach quick-connect cover on Terminal 3.

❸ On **accessory** transformer in 14507287-005 and -006 Power Modules only (Fig. 1):

- — Remove quick-connect cover on Terminal 2.
- — Move wired quick-connect from Terminal 3 (240 V) to Terminal 2 (220 V).
- — Attach quick-connect cover on Terminal 3.

❹ Reassemble insulator.

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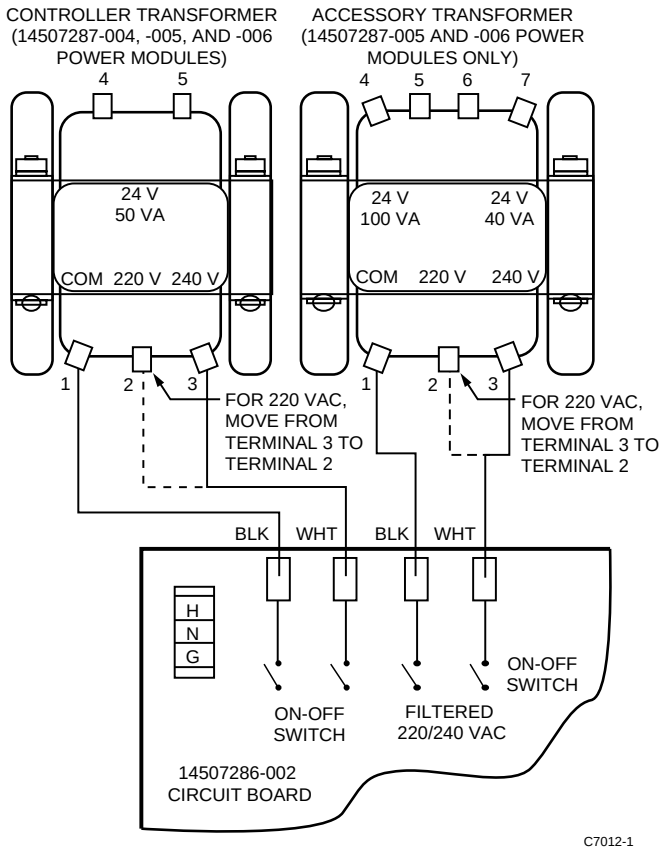


Fig. 1. Restrapping 240/220 Vac power modules (14507287-004, -005, and -006) for 220 Vac operation.

Mounting

❶ Orient Power Module on mounting surface and mark positions for mounting screws (Fig. 2 and 3).

NOTES:

1. For cabinet mounting, mount Power Module in the lower left or right side of cabinet/subpanel.
2. If possible, mount Power Module using predrilled cabinet/subpanel mounting holes o avoid loose metal filings that can damage electronics.

❷ Partially insert four No. 8 mounting screws. Make certain mounting hardware is appropriate for mounting surface.
❸ Hang Power Module on screws.
❹ Tighten mounting screws to secure Power Module in place.
❺ For -007 Modules, mount transformer to subpanel with 4- #8 screws (provided) at location(s) with a circular ring around prepunched holes. Attach ground wires with ring lugs to transformer mounting feet on the lower right side before inserting screws. Mount insulator/terminal strip to subpanel with 2- # 6 screws (provided) at location(s) with a square screened legend around prepunched holes.

WIRING

— All wiring must conform to local codes, ordinances, and regulations. Refer to job drawings for details.
— For 220/240 Vac 50/60 Hz installations, verify voltage difference between any conductor and earth ground does NOT exceed 150 Vac.

❶ Connect 14507063 Power Cable to Power Module per Figure 2 and 3.
❷ Connect line voltage to Terminals H and N of the Power Module. Connect a good earth ground to Terminal G of the Power Module. See Figure 2 and 3.
❸ Leave power to Power Module OFF.
❹ Connect the -007 Module as shown in Figure 4.

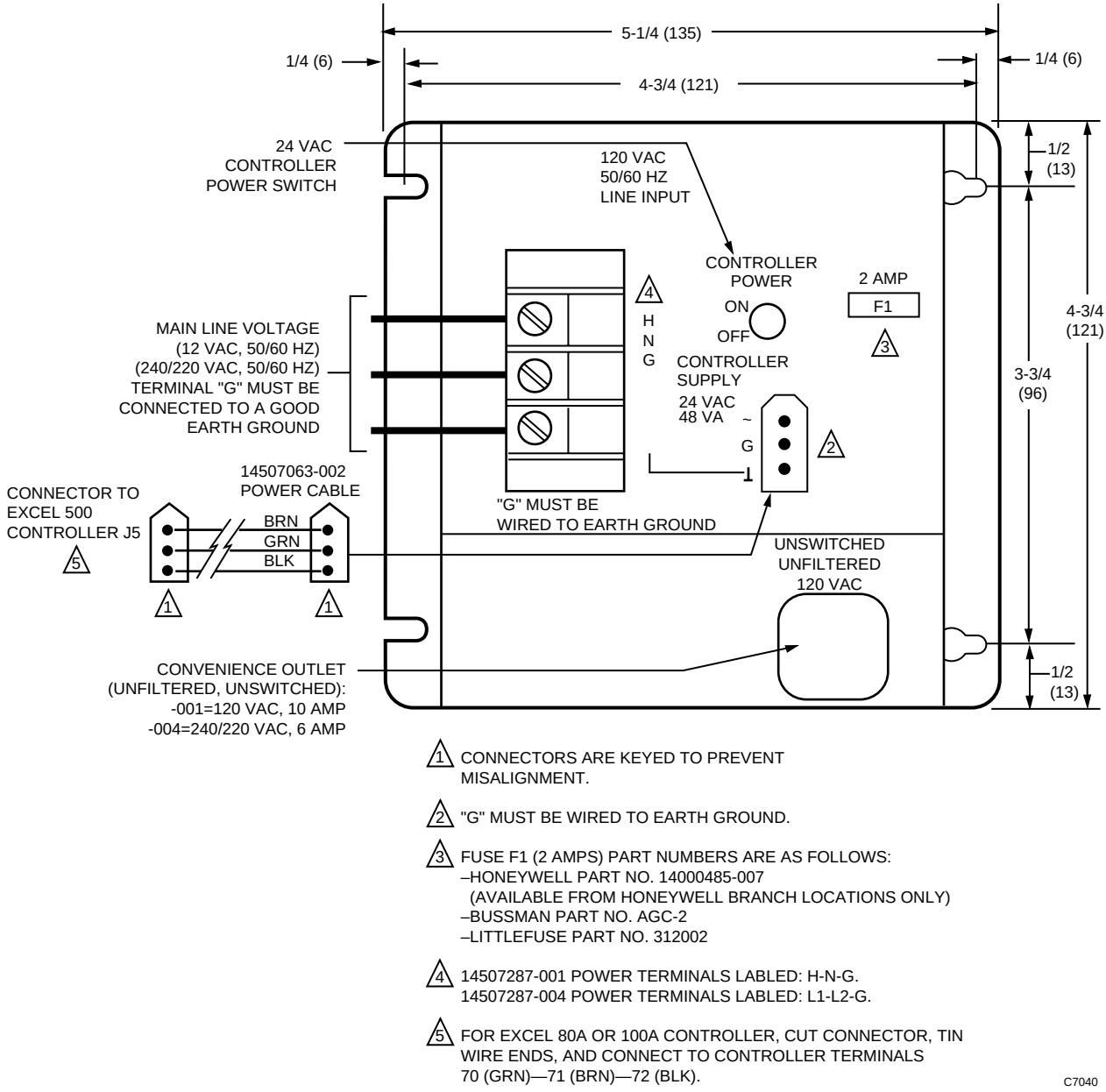
⚠ CAUTION

Main line power to Power Module must remain OFF until system is checked.

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FINAL INSTALLATION

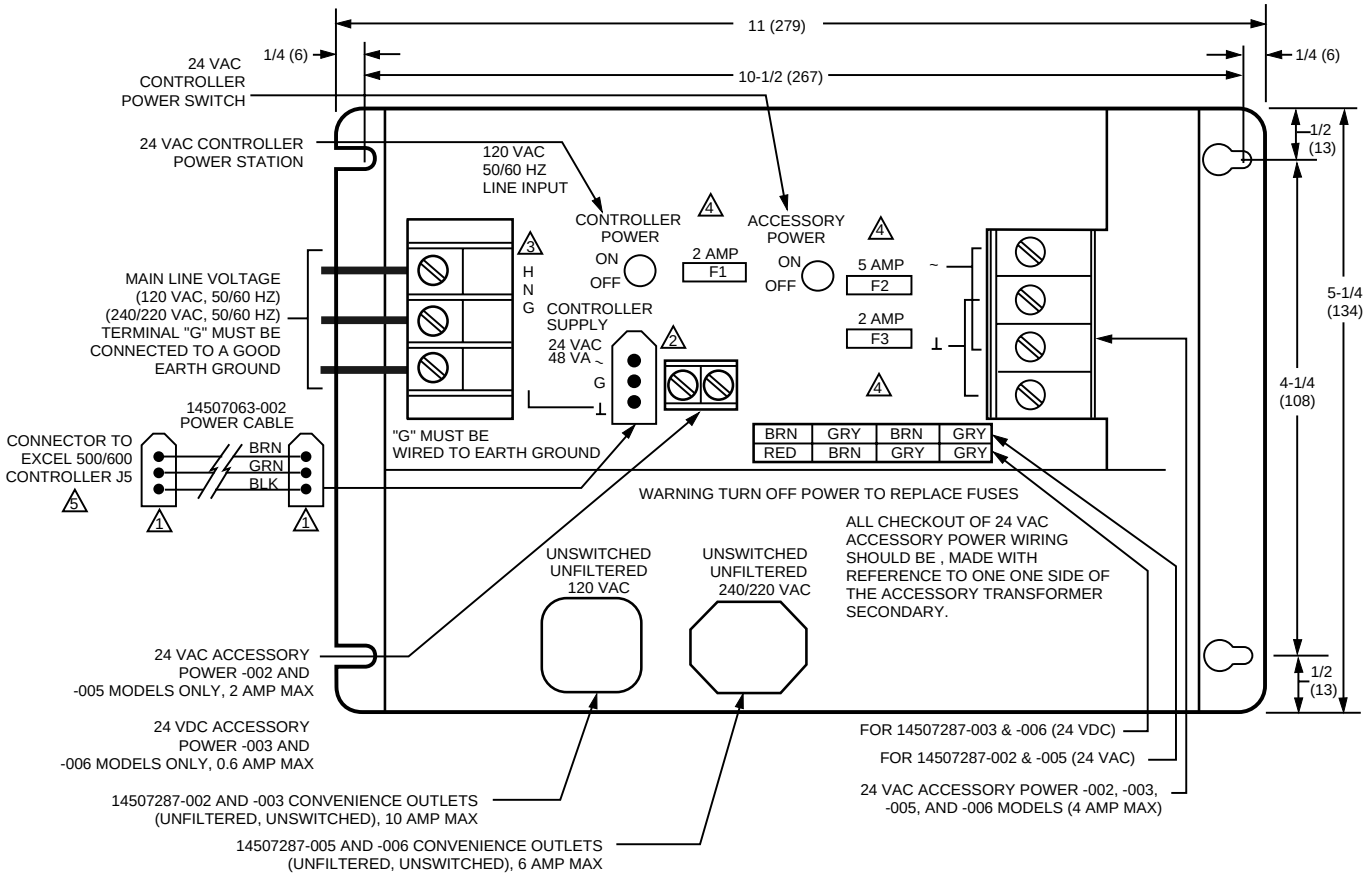
For panel-mounted applications, close and lock panel door.



1. CONNECTORS ARE KEYED TO PREVENT MISALIGNMENT.
2. "G" MUST BE WIRED TO EARTH GROUND.
3. FUSE F1 (2 AMPS) PART NUMBERS ARE AS FOLLOWS:
   –HONEYWELL PART NO. 14000485-007
   (AVAILABLE FROM HONEYWELL BRANCH LOCATIONS ONLY)
   –BUSSMAN PART NO. AGC-2
   –LITTLEFUSE PART NO. 312002
4. 14507287-001 POWER TERMINALS LABLED: H-N-G.
   14507287-004 POWER TERMINALS LABLED: L1-L2-G.
5. FOR EXCEL 80A OR 100A CONTROLLER, CUT CONNECTOR, TIN WIRE ENDS, AND CONNECT TO CONTROLLER TERMINALS 70 (GRN)—71 (BRN)—72 (BLK).

Fig. 2. 14507287-001 and -004 power module dimensions and typical wiring.

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1. CONNECTORS ARE KEYED TO PREVENT MISALIGNMENT.
2. "G" MUST BE WIRED TO EARTH GROUND.
3. 14507287-001 POWER TERMINALS LABLED: H-N-G.
   14507287-004 POWER TERMINALS LABLED:L1-L2-G.
4. PART NUMBERS FOR FUSES ARE AS FOLLOWS:

FUSE SPECIFICATIONS					
POWER MODULE	FUSE NO.	FUSE RATING	HONEYWELL PART NO.	BUSSMAN PART NO.	LITTLEFUSE PART NO.
14507287-001 Through -006	F1	2 Amps	14000485-007	AGC-2	312002
14507287-002, -003, -005, and -006	F2	5 Amps	14507374-001	GMA 5 AMP	235005
14507287-002, -003, -005, and -006	F3	2 Amps	14000485-007	AGC-2	312002

5. POWER CABLE INCLUDED WITH 14507287 POWER MODULES 14507287-001 THROUGH -006 ONLY. FOR EXCEL 80B OR 100B CONTROLLER, CUT CONNECTOR,TIN WIRE ENDS, AND CONNECT TO CONTROLLER TERMINALS 70 (GRN)—71 (BRN)—72 (BLK). FOR Q7750A CONTROLLER, CUT CONNECTOR, TIN WIRE ENDS, AND CONNECT TO CONTROLLER TERMINALS: 1 (BRN); 2 (BLK); 3 (GRN)

C7041-1

Fig. 3. 14507287-002, -003, -005, and -006 power module dimensions and typical wiring.

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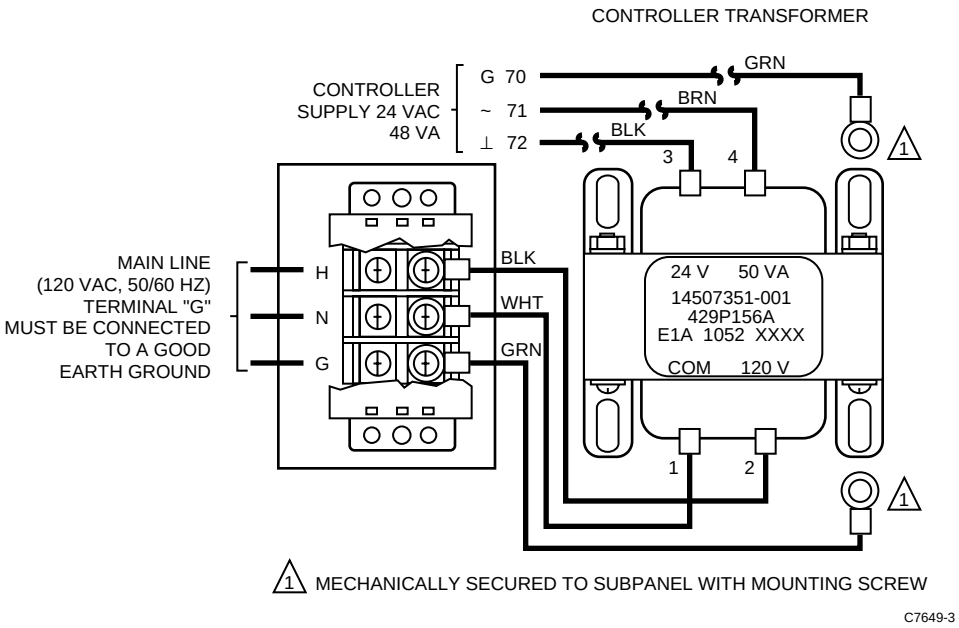


Fig. 4. 14507287-007 power module typical wiring.

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