

Motor Field Control / Power Supply Card

EXACT-MODEL IDENTITY

531X111PSHAPG3 is listed as a General Electric 531X motor-field-control and power-supply card. Verify the full suffix and installed board marking before interchange.

ATTRIBUTE	VERIFIED STATEMENT
Board function	Motor field control and drive power supply.
Documented DC rails	5 VDC, 15 VDC and 24 VDC.
Motor-field path	Pulse transformer supports the field-control circuitry.
System context	DC-drive application; the exact installed host must be checked.

RELATED GE MODEL

531X307LTBAJG1 - a 531X LAN I/O terminal board. View the separate Apter Power record; it is a complementary field-interface item, not an interchangeable power card.

EVIDENCE BOUNDARY

The GE-authored DC-300 manual describes the 531X111PSH family and G1/G2 cards. It does not establish G3 jumper positions or a complete PSHAPG3 rating sheet; do not import those settings into this record.

Supply and field-control interfaces

CONTROL SUPPLIES

The exact-model technical description identifies 5 VDC, 15 VDC and 24 VDC rails used by the drive.

FIELD CONTROL

An integrated pulse transformer provides a path to the motor-field circuitry.

CHECK	ENGINEERING RECORD
Controller power	Confirm supply and return wiring against the installed cabinet drawing.
Field path	Trace the pulse-transformer connection and associated field module.
Full suffix	Check 531X111PSHAPG3, group and revision on the actual board.
Unsupported ratings	No exact-model proof for 3000 W, 30 A, IP54 or ambient limits.

REVISION CHECK

The available manufacturer diagram covers G1/G2. Photograph and compare the installed G3 connectors and settings; do not transpose jumper positions.

DO NOT SUBSTITUTE A TURBINE SYSTEM LABEL

The available evidence identifies a 531X DC-drive power board. Confirm the installed system; do not assume Mark V compatibility from unrelated reseller text.

Verification before replacement

STEP	REQUIRED ACTION
1. Identity	Read and photograph the full 531X111PSHAPG3 marking and revision.
2. Isolation	Follow approved drive isolation and stored-energy procedures.
3. Connections	Record each plug, field lead and control-power connection.
4. Replacement	Compare connector positions and approved host-equipment records.
5. Release	Test relevant DC rails and motor-field operation under controlled conditions.

EVIDENCE TO RETAIN

Keep the original board marking, cabinet drawing, recorded connections and post-install test result together with the maintenance record.

SOURCE CONTROL

Manufacturer family context: GEK-85766, DC-300 Adjustable Speed Drive, power-supply-card sections and figure 7-2. Apply only after confirming the installed revision and actual G3 hardware.