

BRUSHLESS DC MOTOR

ABSTRACT

5 A brushless DC motor is a brushless DC motor provided on a ceiling fan. The
brushless DC motor includes stator (20) that has stator core (22) around which coil (24) is
wound, shaft (30) that is fixed to a central portion of stator core (22), bearing (34), rotor
(40) that has magnet (42) surrounding stator core (22), and a circuit board that has primary-
side power supply circuit (51) between stator core (22) and bearing (34) in an axial
10 direction, secondary-side power supply circuit (52) that converts a voltage supplied from
primary-side power supply circuit (51), and motor drive circuit (53) that supplies a drive
current to coil (24) based on a power supplied from secondary-side power supply circuit
(52).

15 FIG. 4