

ABSTRACT**DC BRUSHLESS MOTOR HAVING A CONTROL CIRCUIT**

A brushless motor having a control circuit (10) with a heat detector (13) has a rotor, a stator with two coils (L1, L2) and a control circuit (10). The control circuit (10) has a driver IC (11) connected to the two coils (L1, L2), a Hall element (12) connected to the driver IC (11), the heat detector (13) connected to driver IC (11) and an AC to DC converter (14) connected to an AC power source. The AC to DC converter (14) provides converted DC power to the driver IC (11), the coils (L1, L2) and the Hall element (12) to make them operate normally. Therefore, the motor can directly use the AC power source by the control circuit (10). The motor has a function for automatically adjusting rotational speed of the motor by the heat detector (13) to decrease power consumption.

Fig. 1



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