

Motor Stator and Motor Applying Same

ABSTRACT

The present disclosure provides a motor stator and a motor to which the motor stator is applied. The motor stator includes: a stator core, having stator slots, wherein the stator slot includes several slot layers and the slot layers are disposed in a radial direction of the stator core; and a stator winding, inserted into the stator slot, wherein the stator winding includes a plurality of first conductors and a plurality of second conductors, and both a first conductor and a second conductor include two straight segment parts; wherein straight segment parts of the plurality of first conductors are separately located at two adjacent slot layers, the first conductor and the second conductor each include two straight segment parts, and one straight segment part of the second conductor and one straight segment part of the first conductor are located in a same stator slot; and wherein a pitch of the first conductor is y_1 , a pitch of the second conductor is y_2 , a pole pitch of the stator winding is τ , a distance between straight segment parts of two adjacent first conductors at a same slot layer is L_1 , and a distance between straight segment parts of two adjacent second conductors is L_2 . In the present disclosure, a height of a bending part of a stator coil can be reduced, and motor efficiency can be improved.

[Fig. 12]