Difference between armature and commutator

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This Article Discusses an Overview of the Main Difference between Armature and Commutator & Working with Their Applications

A commutator consists of a set of contact bars fixed to the rotating shaft of a machine, and connected to the armature windings. As the shaft rotates, the commutator reverses the flow of current in a winding.

The armature, which is usually the rotor, carries the armature winding that is connected to the commutator and brushes. The commutator switches the direction of the current in the armature ...

OMMUTATION 27.1 Armature Reaction By armature reaction is meant the effect of magnetic field set up by armature current on the distribution of flu. under main poles of a generator. The armatur. netises ...

The armature is an electromagnet made by coiling thin wire around two or more poles of a metal core. The armature has an axle, and the commutator is attached to the axle. In the diagram to the right, ...

As the armature rotates within the magnetic field of the motor or generator, the commutator segments periodically change their connection to the brushes. This reverses the current ...

OverviewPrinciple of operationRing/segment constructionBrush constructionThe commutating planeLimitations and alternativesRepulsion induction motorsLaboratory commutatorsA commutator consists of a set of contact bars fixed to the rotating shaft of a machine, and connected to the armature windings. As the shaft rotates, the commutator reverses the flow of current in a winding. For a single armature winding, when the shaft has made one-half complete turn, the winding is now connected so that current flows through it in the opposite of the initial direction. In a motor, the armature current causes the fixed magnetic field to exert a rotational force, or a torque, on the winding to make i...

The armature assembly of a generator consists of many armature coils wound on an iron core, a commutator, and associated mechanical parts. These additional loops of wire are actually called ...

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