

Armature winding

Armature windings can be divided into two groups, depending upon the manner in which the wires are joined to the commutator, namely:

1. Lap windings.

2. Wave windings.

- In lap windings the two ends of any one coil are taken to adjacent segments
- In wave windings the two ends of each coil are bent in opposite directions and taken to segments some distance apart
- if a machine has p pairs of poles
- No. of parallel paths with a lap winding $= 2p$
- and No. of parallel paths with a wave winding $= 2$

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PROBLEMS IN DC MACHINES