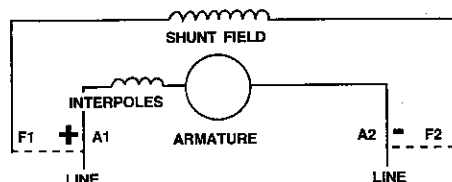


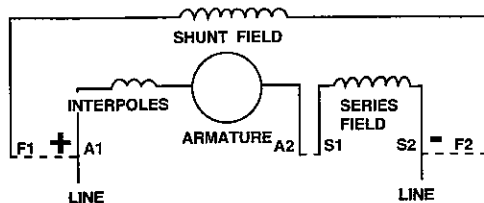
STANDARD TERMINAL MARKINGS AND CONNECTIONS

FOR DC MOTORS (NEMA NOMENCLATURE)

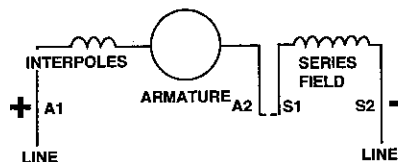
SHUNT MOTOR



COMPOUND MOTOR



SERIES MOTOR



All connections are for counterclockwise rotation facing the end opposite the drive. For clockwise rotation, interchange A1 and A2. Some manufacturers connect the interpole winding on the A2 side of the armature.

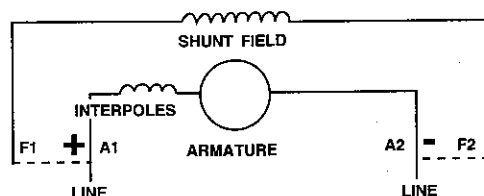
When the shunt field is separately excited, the same polarities must be observed for a given rotation.

NEMA Stds. MG 1-2009, Rev. 1-2010, 2.13.

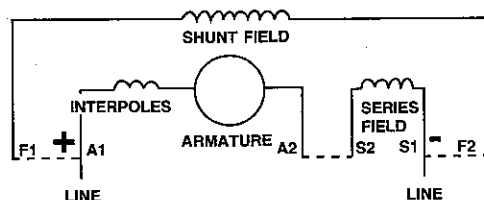
STANDARD TERMINAL MARKINGS AND CONNECTIONS

FOR DC GENERATORS (NEMA NOMENCLATURE)

SHUNT GENERATOR



COMPOUND GENERATOR



All connections are for counterclockwise rotation facing the end opposite the drive. For clockwise rotation, interchange A1 and A2.

Some manufacturers connect the interpole winding on the A2 side of the armature.

For the above generators, the shunt field may be either self-excited or separately excited. When it is self-excited, connections should be made as shown by the dotted lines. When the shunt field is separately excited, it is usually isolated from the other windings of the machine, but the polarity or the voltage applied to the shunt field should be as shown for the particular rotation and armature polarity.

NEMA Stds. MG 1-2009, Rev. 1-2010, 2.14.