

Download How Electric Motors Start & Run

How to Read the Information on an Electric Motor Data Tag. See ELECTRIC MOTOR RUN DIRECTION The blue oval marks the motor's rotating speed - 3450 RPM - this is a high speed oil burner. Older oil burners and equipment motors run at 1725 RPM. Some HVAC equipment uses a variable-speed electric motor. You will find out how to identify to main and auxilliary winding and change motor rotation. Start capacitor, r... How to wire single phase motor with capacitor. During an electric motor start-up (such as an air conditioner compressor motor and some fan motors) where a starting capacitor is included in the circuit, with the added charge stored in the capacitor, run-start and start-common voltages increase to a maximum value to start the motor spinning. But in the case of capacitor-start induction-run motors, the angle between I_s and I_m is 80 degrees. It is then obvious that the increase in the angle (from 30 degrees to 80 degrees) alone increases the starting torque to nearly twice the value developed by a standard split-phase induction motor.