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We are using 28BYJ-48 stepper motor for this project which is cheap and easily available. It is 5V DC unipolar stepper motor. We are also using a Module available with this motor which consist ULN2003 Stepper Motor Driver IC. ULN2003 is a Darlington pair array, which is useful to drive this motor, since PIC microcontroller couldn't provide enough current to drive.

Interfacing Stepper Motor with PIC Microcontroller ...
Interfacing DC Motor with PIC Microcontroller; In this example project DC Motor is interfaced with PIC Microcontroller using L293D Motor Driver. Two Push Button switches are provided to control the speed of the motor. Here we are using 12V DC Motor and average DC value delivered to motor can be varied by varying the duty ratio of the PWM.

DC Motor Speed Control using PWM with PIC Microcontroller ...
The second photo shows the motor running while connected to an AC Ammeter. The name plate on the motor says it runs with a current draw of 7.3 Amps. The meter is set to the 15 Amp. range. The actual reading is just a little below 7 Amps. Taking such a reading while the motor is actually running confirms that all is well.

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The motor working voltage (Vc) is about 1,5-2 times the mains supply and decrease with the increase of the load.With capacitive reactive power of about 75% of the nominal power of the motor, the comparison of power is slightly lower than that of a three-phase motor of equal size. For running capacitor are rated in a range of 3-70 microfarad.

Motor start and run capacitor - Electrical Engineering Centre

Small Portable Outboard Engines Small outboard motors, up to 15 horsepower or so are easily portable. They are affixed to the boat via clamps, and thus easily moved from boat to boat. This type of motor is typically used to power small craft such as jon boats, dinghies, canoes, etc. Built to provide auxiliary power for sailboats.

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other, larger, motors where diodes are indeed required. When the motor is running at full speed, the PIC needs to read the counter at least every 125 µs so as to minimise the possibility of target position overshoot. On the other hand, the PIC also needs to monitor the state of the external (I2C) and local (up-down switch) communications.

DC motor-encoder position servo controller
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