

B AC Motors

Speed Controller FX1000A

FX1000A Speed Controller



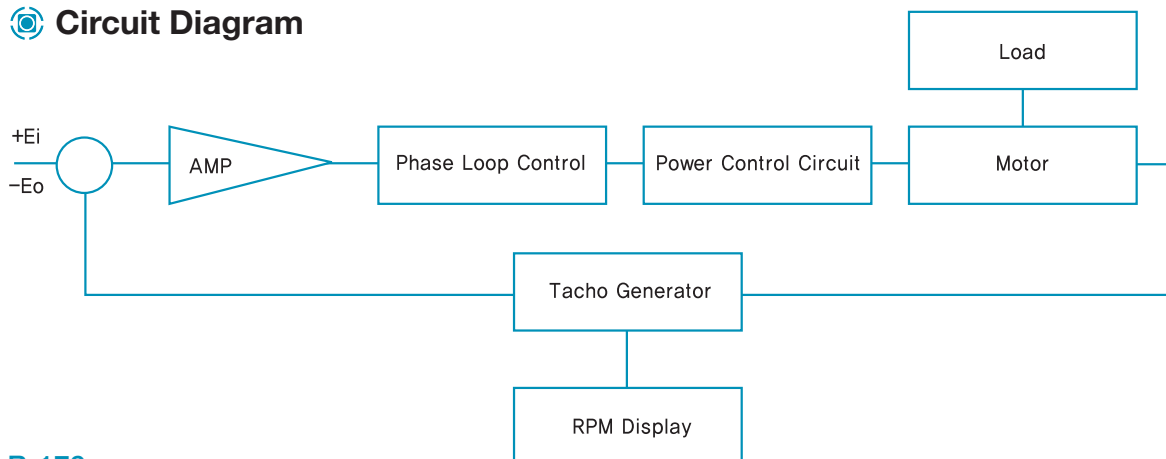
Features

- Easy Connection**
 Control units combine the control pack, potentiometer and capacitor into on device. Operation is possible just by connecting the control unit into power supply after connecting the motor and control unit together using the connector.
- Easy Operation**
 The speed can be set easily with the potentiometer on the front panel of the control unit.
- Digital Display**
 The motor speed can see directly on the front panel of display of the control unit.
- Slow up & Down Setting**
 Setting time range : 0.01sec~5sec

General Specifications

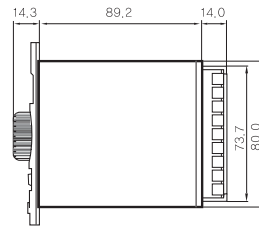
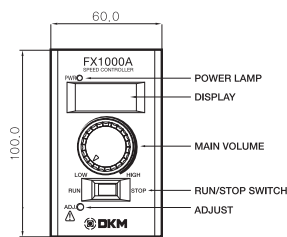
Item	Specification	Item	Specification
Rated Input Voltage	200~240VAC 50/60Hz	Ambient Temperature	-10°C~+55°C
Voltage Regulation	±10%	Ambient Humidity	35~85% RH
Power Consumption	Below 4VA	Weight	300g
Control Mode	Phase Loop Control (0 to 220VAC)	Dimension	60(W) X 100(H) X 117.5(D)mm
Input Frequency	10Hz-360Hz (TACHO)	Insulation Resistance	100MΩ or more when DC500V MEGA is applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity.
Power On/Off Signal	Red 3Ø LED	Dielectric Strength	Sufficient to withstand 1.5KV at 50Hz and 60Hz applied between the windings and the frame for 1 minute after rated motor operation under normal ambient temperature and humidity.
Speed Set Range	100~1750r/min	Measurement	CAT III
Slow up & down Setting	Setting time range: 0.01 sec ~ 5 sec		

Circuit Diagram

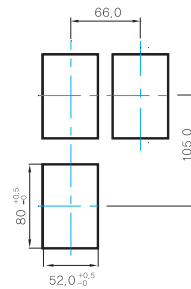


Dimensions

FX1000A



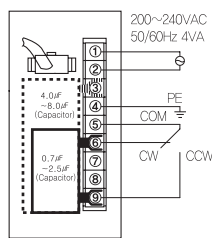
Mounting Panel



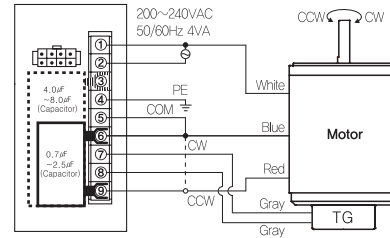
Connection Diagrams

Speed Control Induction Motor / Speed Control Reversible Motor / Speed Control Clutch & Brake Motor

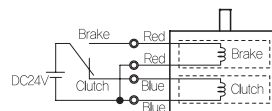
Connector Type



Terminal Type

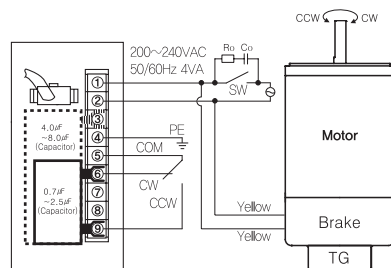


Clutch & Brake Connection Diagram

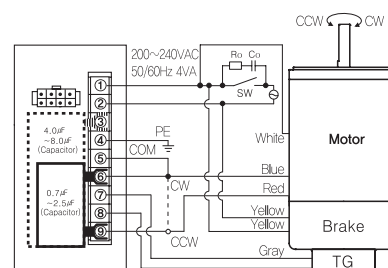


Speed Control Brake Motor

Connector Type



Terminal Type



* SW Contact Capacity: AC125V or AC250 5A minimum
R0 and Co indicate RC circuit for surge suppression. [R0=5~200Ω, Co=0.1~0.2µF, 200W (400W)]

- 1) At first connect each terminal on the rear panel of the controller with the motor as instructed in connection diagram. And then input the external power to both of the terminal 'AC' for the rated speed operation. Now you can adjust the main volume on the center of front panel to control the output speed of motor.
- 2) Direction: Clockwise COM+CW, Counterclockwise COM+CCW
- 3) Capacitor: Connect 3-9 or 6-9, according to its capacity
- 4) For the connection method of the clutch & brake part, refer to the diagram of [Clutch & Brake Connection Diagram].
- 5) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.