

Lift Pump 24-Volt Motor Controller KCCA0039



Kinetek Controls®

A Kinetek Company®

Kinetek KCCA0039 motor controllers are a low cost, high performance solution for pump motor control applications including scissor lifts, lift trucks, mobile booms, or any pumping application where 24-volt, series motor, speed control is employed.

KCCA0039 controllers keep cost low while emphasizing tough, solid-state durability and performance over time. Controllers provide circuit over-voltage protection, control input over-voltage protection, and control output over-voltage protection.

The controller speed input uses a 0 to 5-volt linear DC voltage, usually provided by a simple 5 to 10k Ohm potentiometer, and a separate 12-volt or greater Enable input. At 0.5 Volts, the controller begins providing voltage to the motor at a minimum duty cycle of 7.0%. The duty cycle increases linearly with speed input voltage up to 3.86 volts at which point the duty cycle is 100%. If the controller measures 4.6 volts or more on the speed control input, or 5.6 volts or more on the speed control output circuit, for longer than 100mS, the controller will shut down. If the controller detects circuit voltage outside its 12 to 32 volt operating range, for longer than 0.5 seconds, it will likewise shut down. Logical shut down occurs before motor or controller can be damaged. The controller is easily reset by cycling the Enable input.

Simple mounting and easy-connect blade terminals for control connections make the KCCA0039 easy to install and connect. The rugged enclosure provides durable protection for electronic circuitry.



Features

- Current limiting: 360 Amps
- Operating voltage: 12 to 32 Volts DC, 300 to 400 Amps
- Input voltage range: 0 to 5 Volts DC
- Enable input: 12V DC or greater, (10 mA max)
- Speed input over voltage protection
- Speed output circuit over voltage protection
- Operating circuit over voltage protection
- Easy connect blade-style (Faston) control connections
- Rugged enclosure

Applications

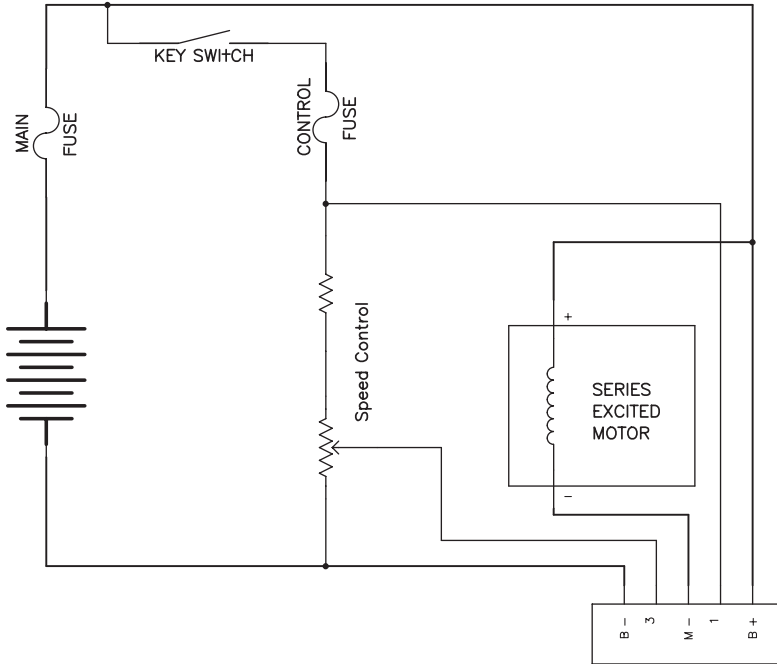
- Material handling lifts
- Scissor lifts
- Lift trucks
- Mobile booms
- Appropriate pump motor applications

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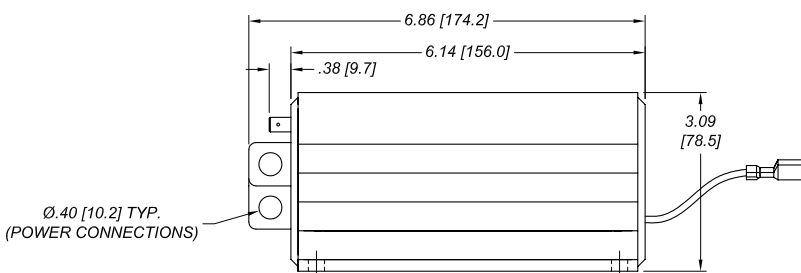
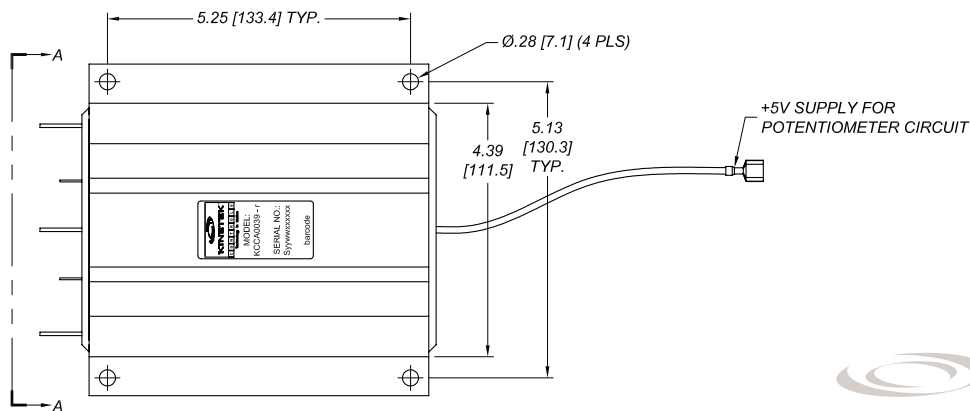
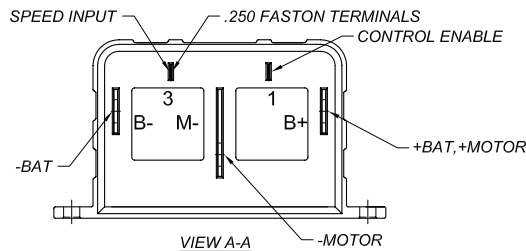
Electrical



Operation

- **Enable Input:** A voltage greater than 12V (10mA maximum load) must be applied to enable the control.
- **Speed Input:** Once enabled, a 0 to 5V linear signal controls motor speed. Designed to operate with a 5 to 10k Ohm potentiometer. Potentiometer wiper is connected to the speed input with the remaining two potentiometer connections made to the +5V potentiometer supply and B-.
- **Shutdown reset:** Cycle Enable input power.

Dimensions



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