

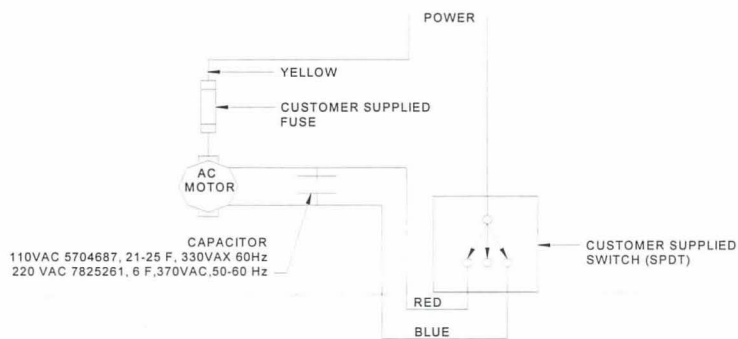
Wiring Installation Specification • 7820270

Performance Pak Wiring Diagrams

The wiring diagrams shown apply to either DC actuators or AC actuators with or without brake, 110VAC or 220VAC. Select the diagram that applies to your specific unit.

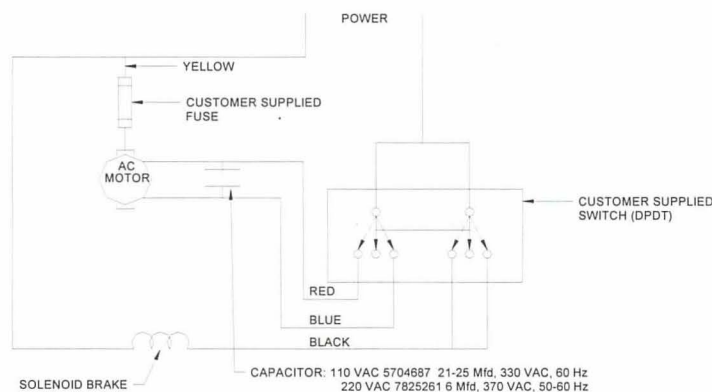
NOTE: The switches shown are not supplied by Thomson and are intended to describe the basic switching contacts only. While these switches will operate the assemblies, the final selection of the appropriate switch and /or switching system is the responsibility of the **end user** and is to be consistent with applicable electrical standards, reliability, and life requirements as may be required.

Performance Pak Actuator • Without Electric Brake

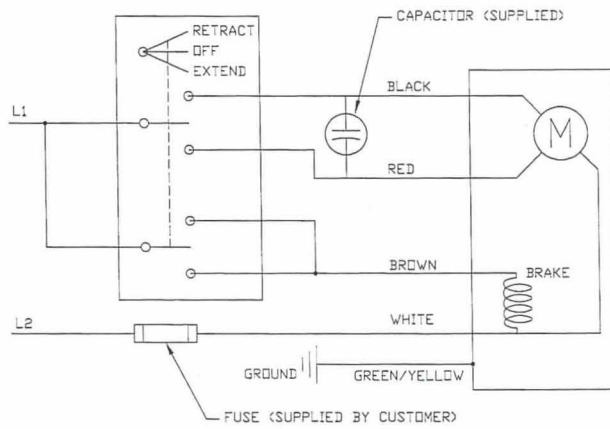


Performance Pak Actuator • With Electric Solenoid Brake • 110 VAC ONLY

Switching red and blue leads reverses motor.



Performance Pak Actuator • With Electric Brake

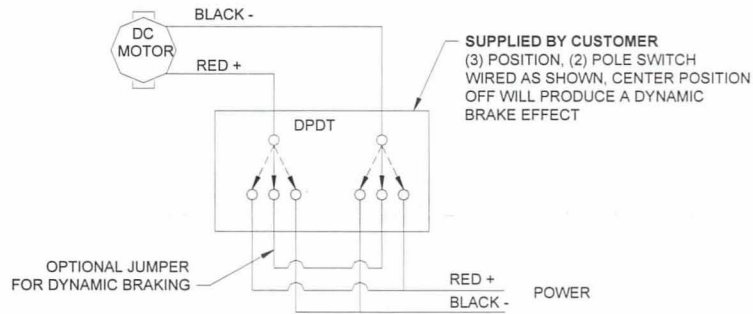


Switching red and black leads reverses motor

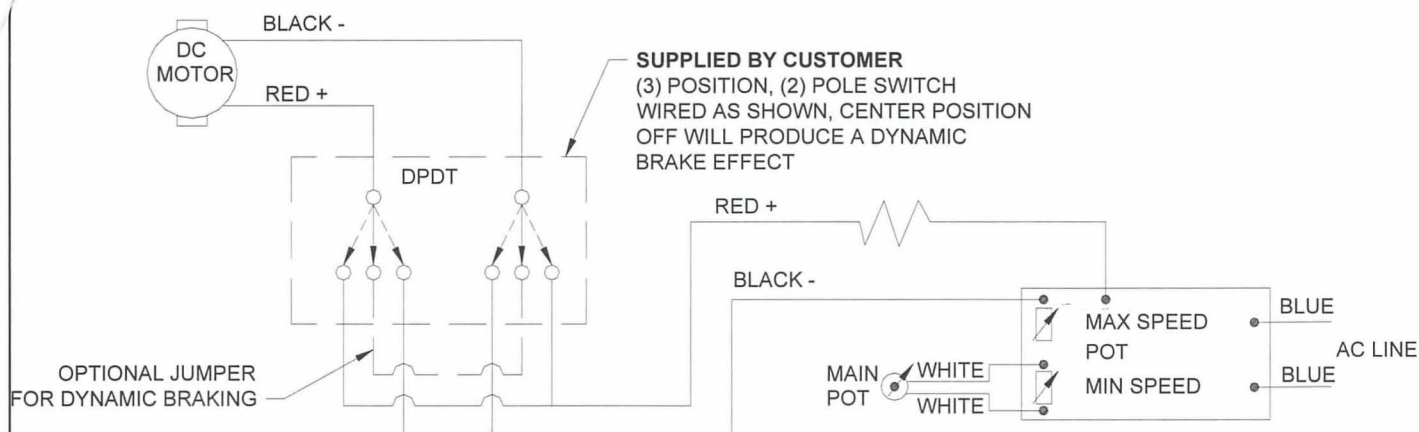
ELECTRIC BRAKE

All DC Performance Pak Actuators

A change of polarity reverses motor



90 VDC Performance Pak Actuator • With Speed Control



To Adjust Maximum and Minimum Speed: For maximum speed, turn Main Pot clockwise to maximum speed, then adjust Minimum Speed Pot. For minimum speed, turn Main Pot counter clockwise to minimum speed, then adjust Minimum Speed Pot.

Note: Surge resistor (supplied by Customer) should be used on motors having excessive surge currents. Armature switching circuits such as dynamic braking or reversing also require a surge resistor. The resistor should be installed between the Pot control and switch or relay.

Resistor Sizing

| AMPS | OHMS (all 25 Watt) |
|------------|--------------------|
| 2.5 to 4.0 | 2 |
| 1.6 to 2.5 | 3 |
| 1.2 to 1.6 | 5 |

Amps should be measured on AC side of speed control under full load conditions.



Safety Warning! – Please Read Carefully

This product should be installed and serviced by a qualified technician, electrician or electrical maintenance person familiar with its operation and the hazards involved. Proper installation, which includes wiring, mounting in proper enclosure, fusing or other overcurrent protection and grounding, can reduce the chance of electric shocks, fires or explosion in this product or products used with this product, such as electric motors, switches, coils, solenoids and/or relays. Eye protection must be worn and insulated adjustment tools must be used when working with control under power. This product is constructed of materials (plastics, metals, carbon, silicones, etc.) which may be a potential hazard. Proper shielding, grounding and filtering of this product can reduce the emission of radio frequency interference (RFI) which may adversely affect sensitive electronic equipment. If information is required on this product, contact our factory. It is the responsibility of the equipment manufacturer and individual installer to supply this safety warning to the ultimate user of the product. (SW effective 11/92)

The input circuit of the control (potentiometer) is not isolated from the AC line. **Be sure to follow all instructions carefully. Fire and/or electrocution can result due to improper use of this product.**