

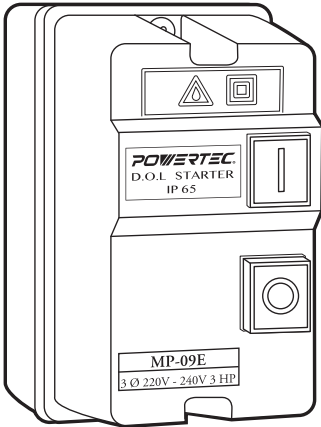
POWERTEC®

Magnetic Switch (220–240 V)

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QUESTION...

1•847•780•6120



OPERATION: The green push button switch allows current to go to the magnetic coil which pulls the contactor closed. Main current now passes through the thermal overload/phase loss relay and then to the motor. This relay monitors motor current draw. If the motor begins to overheat or a phase loss is detected, the relay breaks the magnetic field, which opens the contactor and cuts current to the motor. The red push button breaks the magnetic field, which opens the contactor and disconnects the current to the motor.

SAFETY INSTRUCTIONS

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WARNING

To reduce risk of serious burns, electrocution or death when installing this switch:

- This switch is to be used to replace an existing machine switch with the same physical configuration, equivalent electrical specifications and ratings.
- The installation of this switch **MUST** be performed by an electrician or qualified service personnel in accordance with all national and local electrical codes.
- This switch **MUST** be installed on an electrical circuit with a verified machine ground, correct voltage and adequate fuse protection.
- Before installing the switch, **TURN OFF AND COMPLETELY DISCONNECT ALL POWER SOURCES** to the machine.
- **DO NOT** use this switch in damp or wet locations. **DO NOT** use this switch near explosive fumes or flammable liquids. It is not sealed or rated for these environments.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

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WARNING

- This switch **MUST** be installed on an electrical circuit with a verified machine ground. In the event of certain malfunctions or breakdowns the grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

To Install

See the **Wiring Diagram** to properly install the switch.

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WARNING

Read and understand the instructions before installing this switch.

SPECIFICATIONS

Voltage Rating..... 220–240 V

Rated Current Amperage 8–12 A

Phase 3

Horsepower..... 3

UL Approved

IMPORTANT: This magnetic switch toggles a motor ON and OFF. If the motor operating temperature gradually increases due to heavy workloads or a phase loss is detected, the switch provides protection to the motor.

NOTE: The thermal overload/phase loss relay inside is not designed to cut power in the event of a sudden motor overload or stall. The magnetic switch **MUST** be connected to a properly sized power supply circuit with a correct fuse or circuit breaker to help protect the motor against sudden motor overload or stall.

WIRING DIAGRAM

220/240 3-Phase
Power Source

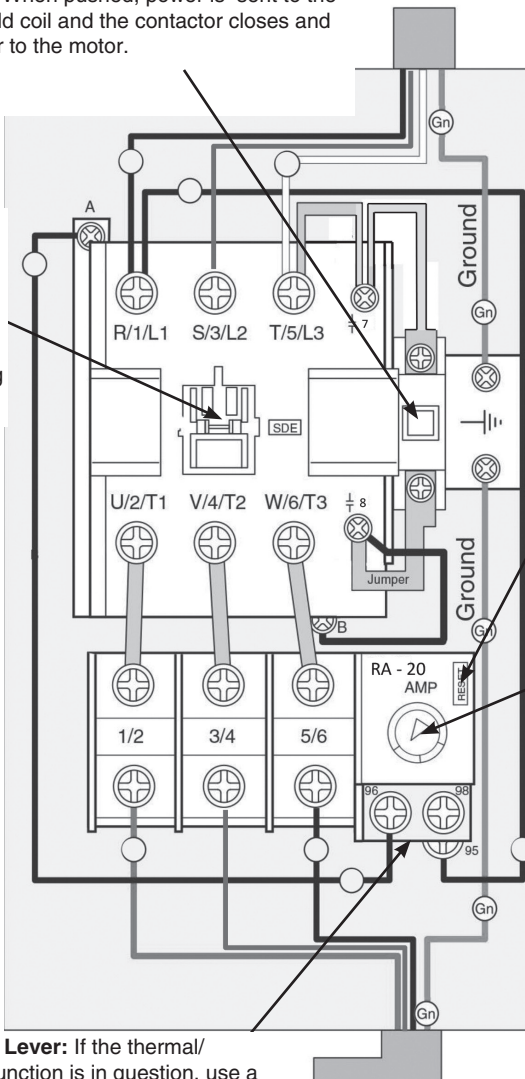
ON Button: When pushed, power is sent to the magnetic field coil and the contactor closes and sends power to the motor.

Manual Contactor Override Lug: When pushed, the contactor is manually closed for troubleshooting purposes only.

Reset Button/OFF Button

Reset Operation: If the thermal/phase loss relay has tripped, push this button to reset the relay.

OFF Operation: If the motor is operating normally, this button will also cut the current going to the magnetic field coil, which opens the contactor and kills power to the motor.



Thermal Relay Overload Amp Adjustment Dial: Turn this dial to the motor manufacturer's thermal overload amp setting specification. Typically this setting is 100-110% of what is listed on the motor data plate as the MAX amp load.

IMPORTANT: Turning this dial has no effect on increasing motor horsepower. Turning this dial to a too high amp setting could cause the motor to overheat and become damaged before the relay trips.

Manual Trip Test Lever: If the thermal/phase loss relay function is in question, use a wooden stick or dowel to slide the brown lever to the right. If the motor shuts off, the thermal relay has tripped and is functional. If the motor keeps running, the thermal relay needs to be replaced.

3 HP 220/240 V
Motor

Visit us on the web at powertecproducts.com



Put these instructions and the original sales invoice in a safe, dry place for future reference.

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Waukegan, IL 60087

19-0604