



Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys

Standard Terminal Box 0.5 HP - 180 HP

Diagrams are valid for Motorized Pulleys manufactured after January 2011. For units built prior to this date contact Rulmeca or refer to Repair and Maintenance Guide available at sales-us@rulmeca.com.

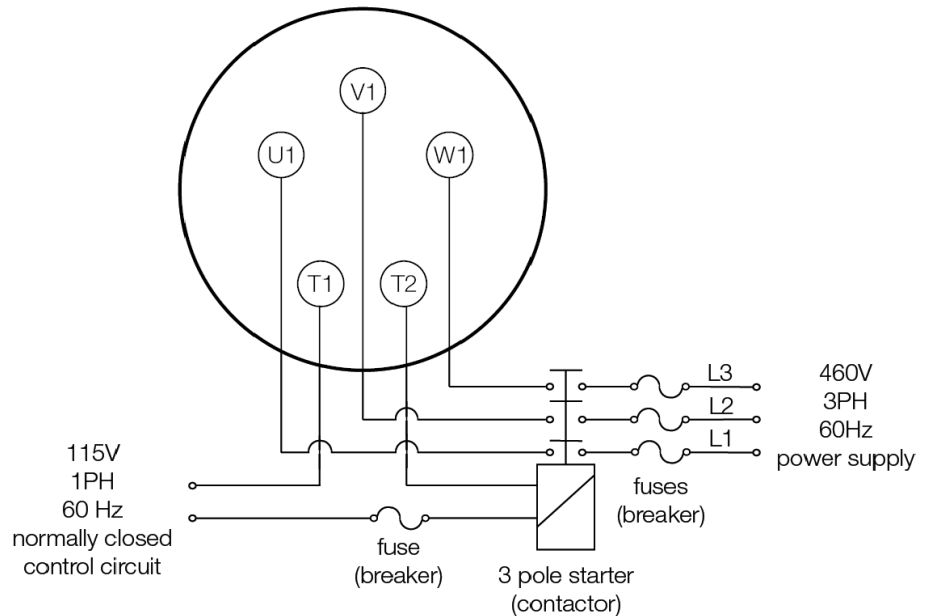
T1 & T2= Internal bi-metallic thermal protection switch which MUST BE CONNECTED to external normally closed control circuit.

Optional for models 630H-800HD:
T1 & T2 = internal temperature sensor (either PT100 or PTC) which must be connected to appropriate control architecture instead of normally closed control circuit.

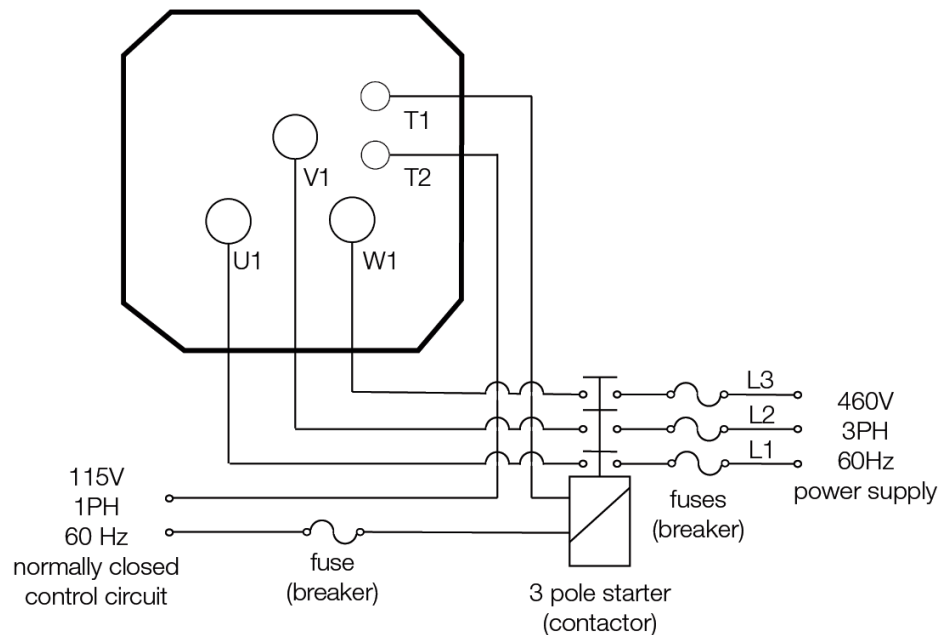
See page 101 for optional models with internal temperature sensor and thermal protection switch.

See Technical Precautions pages 89-90 for complete electrical design, installation, and maintenance instructions.

USA standard for models 138LS - 400H
460V power supply (230V also available)



USA standard for models 500H - 800HD
460V power supply





Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys with Internal Brake

Standard Terminal Box 0.5 HP - 20 HP

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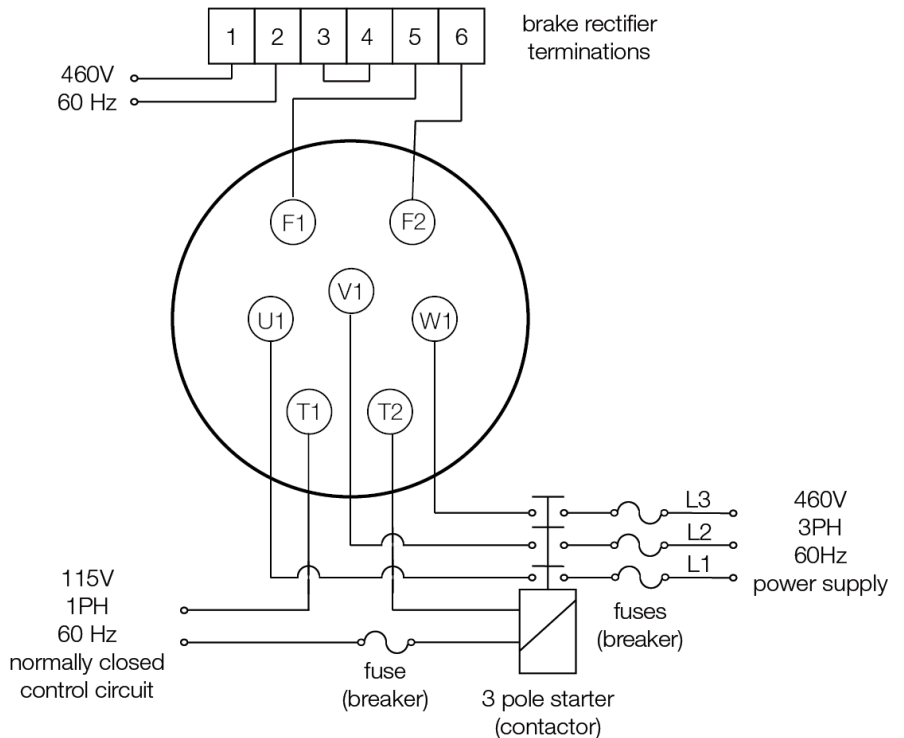
T1 & T2= Internal bi-metallic thermal protection switch which MUST BE CONNECTED to external normally closed control circuit.

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

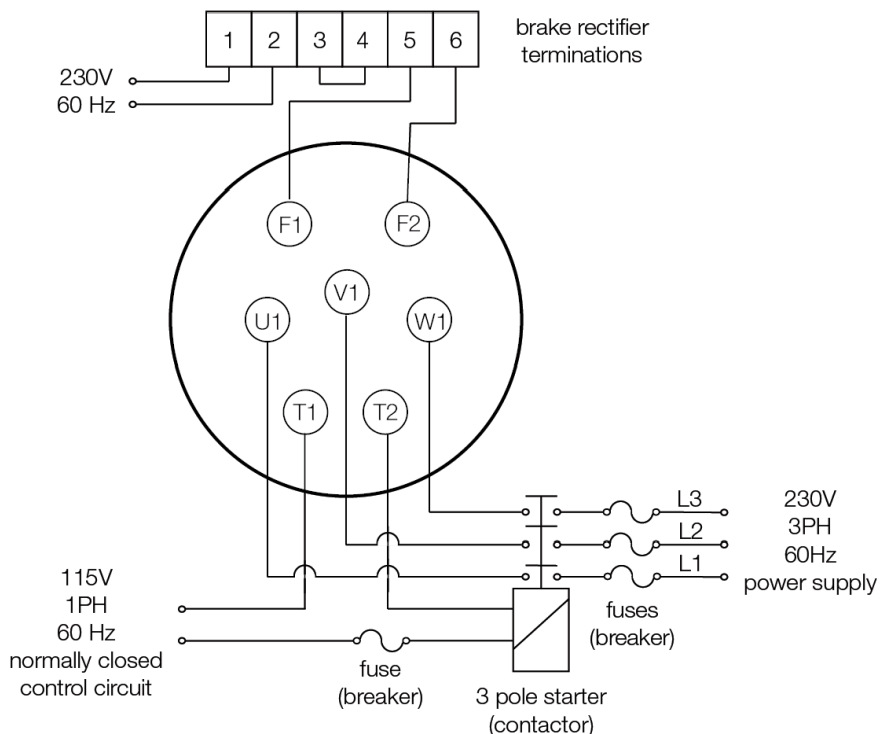
Brake rectifier is shown with jumper across terminals 3 and 4. This enables AC power supply to rectifier to stop and start brake. Brake responsiveness may be improved by connecting an external switch to terminals 3 and 4.

Internal electromagnetic brake is available in models 220M - 500M.

USA standard 460V power supply (with 207VDC brake)



USA standard 230V power supply (with 104VDC brake)





Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys

Model 138LS - 400L in 3 phase Power Cord 0.13 HP - 5.5 HP

Model 138LS in 1 phase Power Cord 0.13 HP - 0.75 HP

Power cord wires are supplied with black insulation and white numbers. Wire numbers are indicated on the diagram.

T1 & T2= Internal bi-metallic thermal protection switch which MUST BE CONNECTED to external normally closed control circuit.

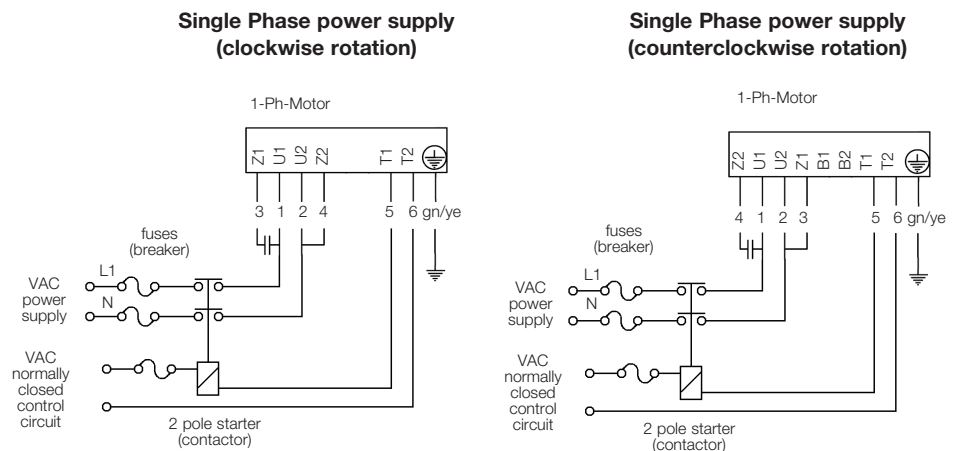
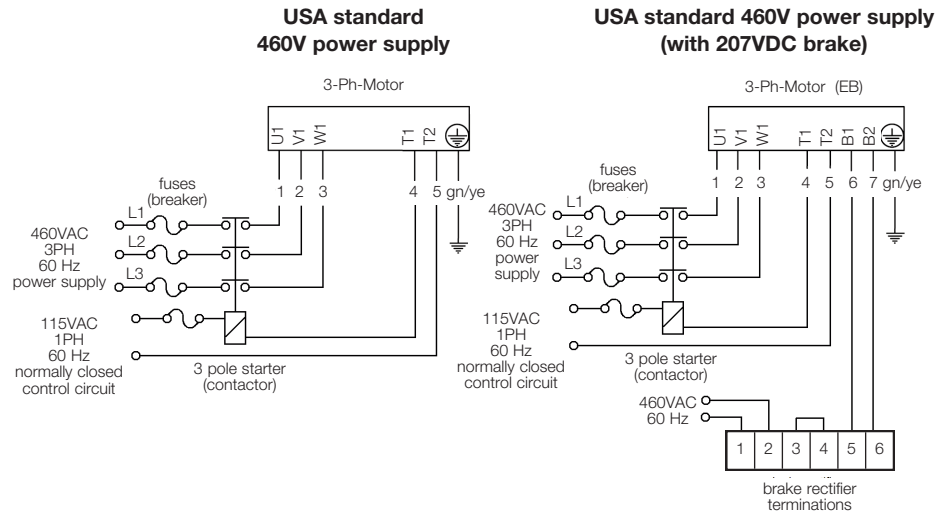
EB = electromagnetic brake

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

Brake rectifier is shown with jumper across terminals 3 and 4. This enables AC power supply to rectifier to stop and start brake. Brake responsiveness may be improved by connecting an external switch to terminals 3 and 4.

For two speed motor details contact Rulmeca.

Internal electromagnetic brake is available in models 138LS - 500M.





Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys

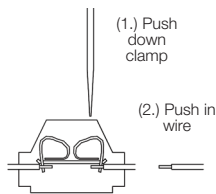
Model 138LS in 3 phase Compact Terminal Box and WAGO-Clamp 0.13 HP - 1.0 HP

T1 & T2= Internal bi-metallic thermal protection switch which MUST BE CONNECTED to external normally closed control circuit.

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

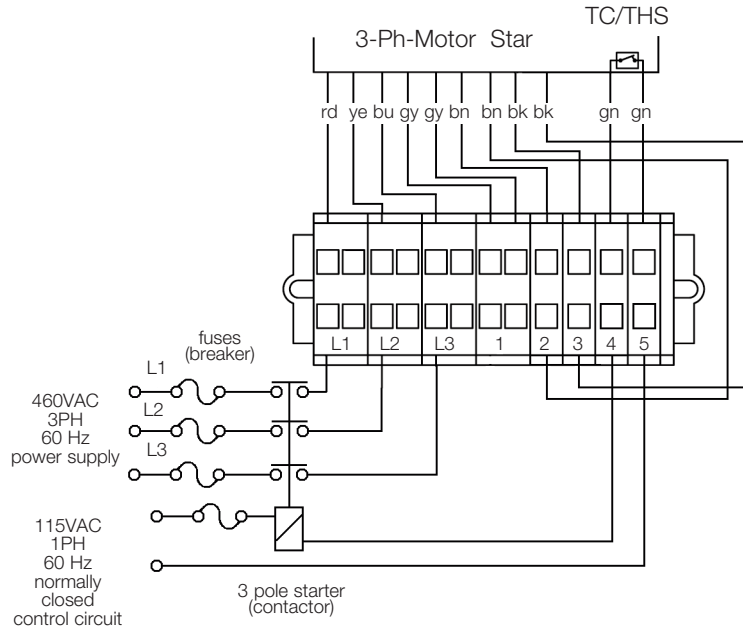
For two speed motor details contact Rulmeca.

- RD = Red
- YE = Yellow
- BK = Black
- GY = Grey
- BU = Blue
- GN = Green
- BN = Brown
- T1 & T2= Thermal Protector

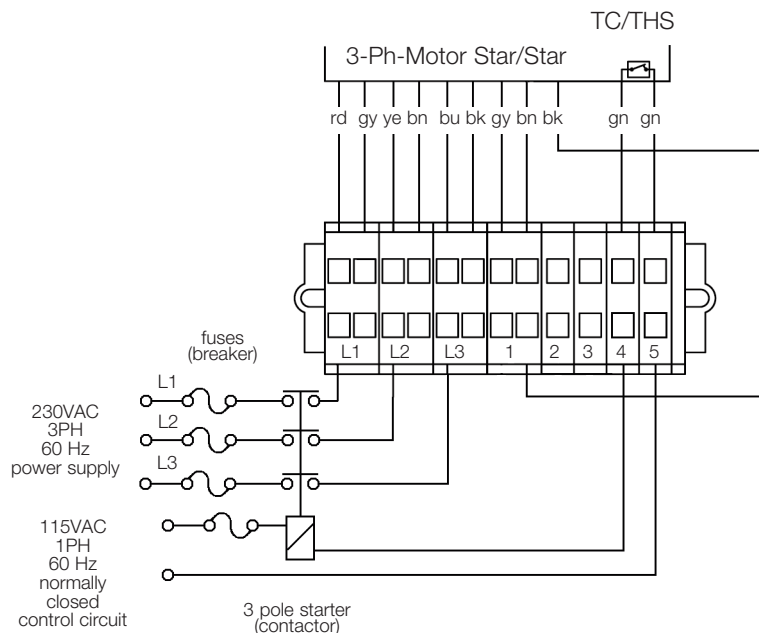


Assembly instructions

USA standard 460V power supply



USA standard 230V power supply





Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys

Model 138LS in 1 phase Compact Terminal Box and WAGO-Clamp 0.13 HP - 0.75 HP

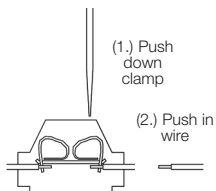
Diagrams are valid for Motorized Pulleys manufactured after January 2011. For units built prior to this date contact Rulmeca or refer to Repair and Maintenance Guide available at sales-us@rulmeca.com.

T1 & T2= Internal bi-metallic thermal protection switch which **MUST BE CONNECTED** to external normally closed control circuit.

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

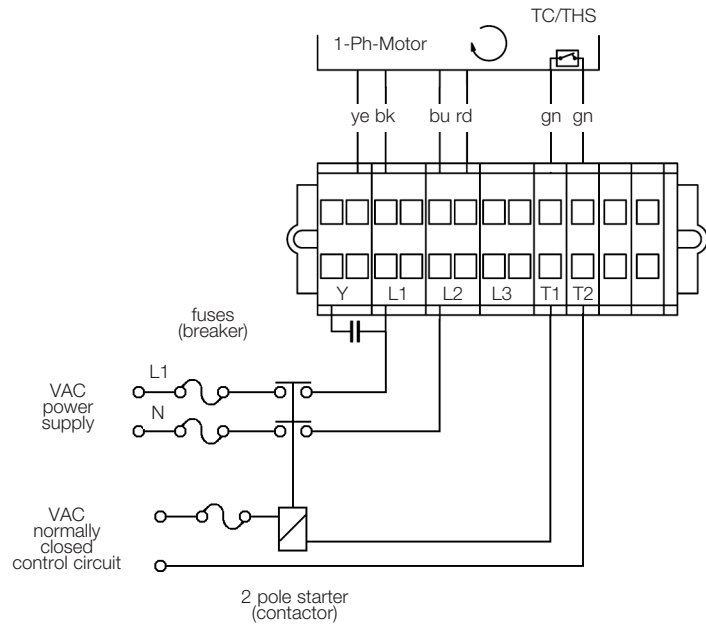
For two speed motor details contact Rulmeca.

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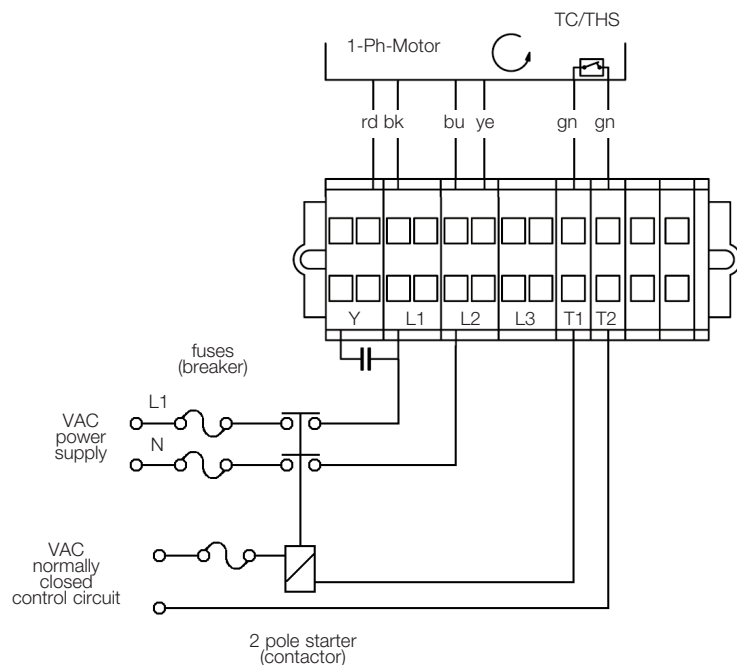


Assembly instructions

Single Phase power supply (clockwise rotation)



Single Phase power supply (counterclockwise rotation)





Precautions for Design, Installation and Maintenance

34) Connection Diagrams for Motorized Pulleys

Standard Terminal Box w/o brake
0.5 HP - 330 HP

Standard Terminal Box with brake
0.5 HP - 20 HP

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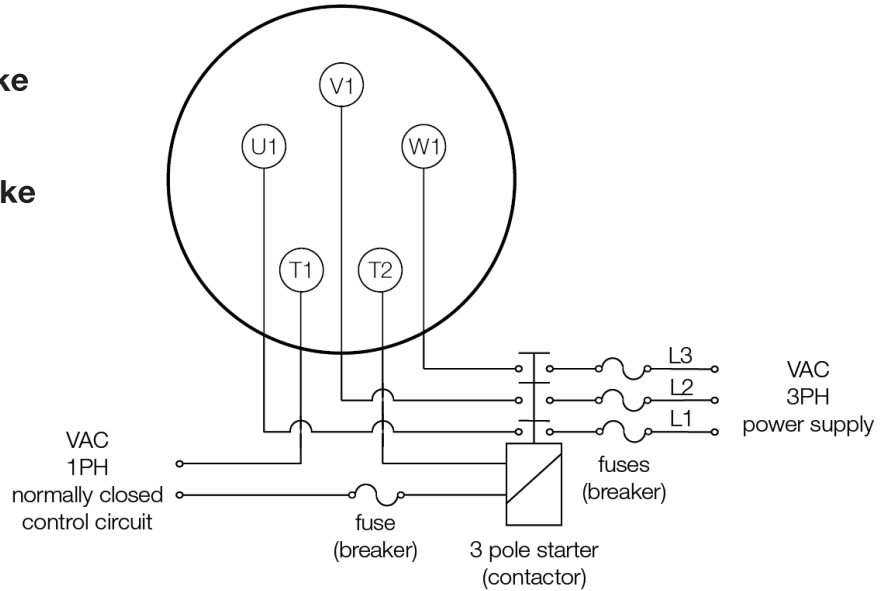
T1 & T2= Internal bi-metallic thermal protection switch which MUST BE CONNECTED to external normally closed control circuit.

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

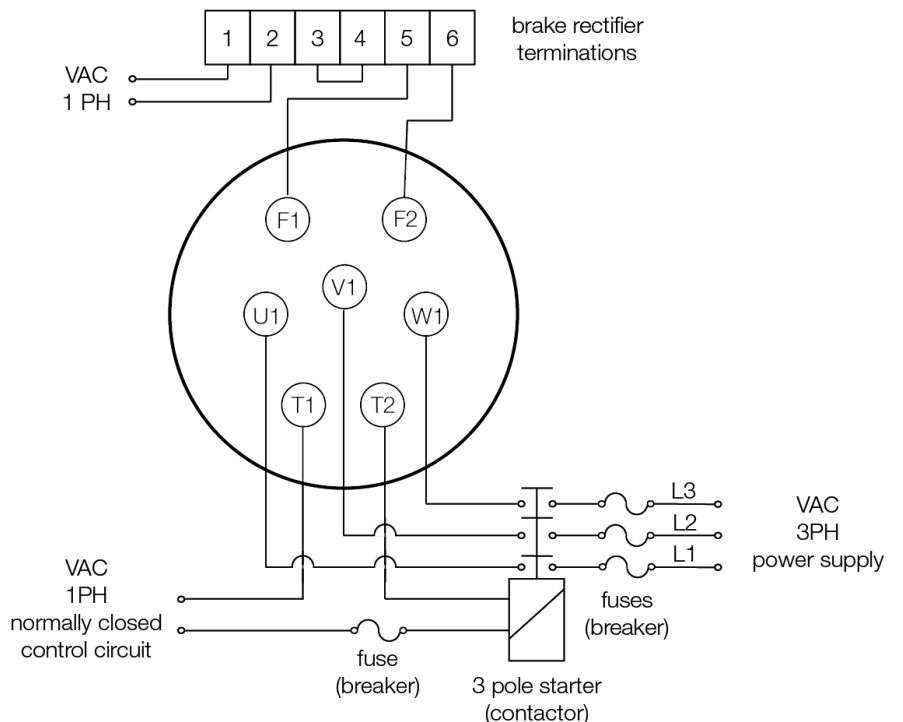
Brake rectifier is shown with jumper across terminals 3 and 4. This enables AC power supply to rectifier to stop and start brake. Brake responsiveness may be improved by connecting an external switch to terminals 3 and 4.

Internal electromagnetic brake is available in models 220M - 500M.

Non-USA power supply without brake



Non-USA power supply with brake





Precautions for Design, Installation and Maintenance

34) Connection Diagram for Motorized Pulleys 500H - 800HD

Internal Anti-condensation Heating Element

Trickle Voltage Heating

Terminals H1 & H2 for the anti-condensation heating element are live during Motorized Pulley stoppage.

Terminals T1 & T2 for thermal protection switch which **MUST BE CONNECTED** to external normally closed control circuit.

Trickle heater relay may only be switched on when motor switch is off and motor speed is zero for 5 seconds.

Motor relay may only be switched on when heater is off for 5 seconds.

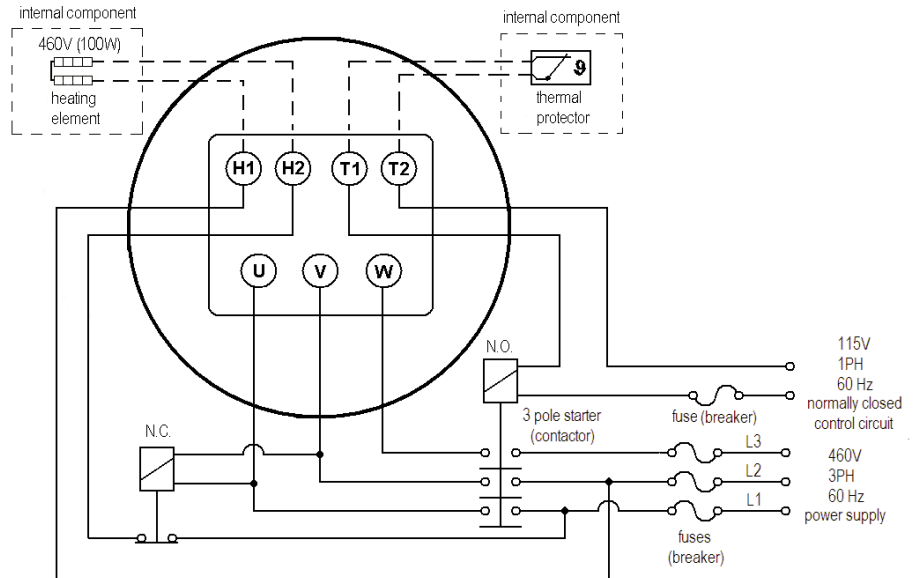
“Dry type” (two winding) transformer maximum secondary voltage is 10% of nominal voltage. Transformer should have +/- 5% and +/- 10% primary voltage control knobs for final voltage adjustment.

Winding fuse maximum is 25% of nominal amps.

Refer to local electrical service company for recommended transformer rating and transformer use.

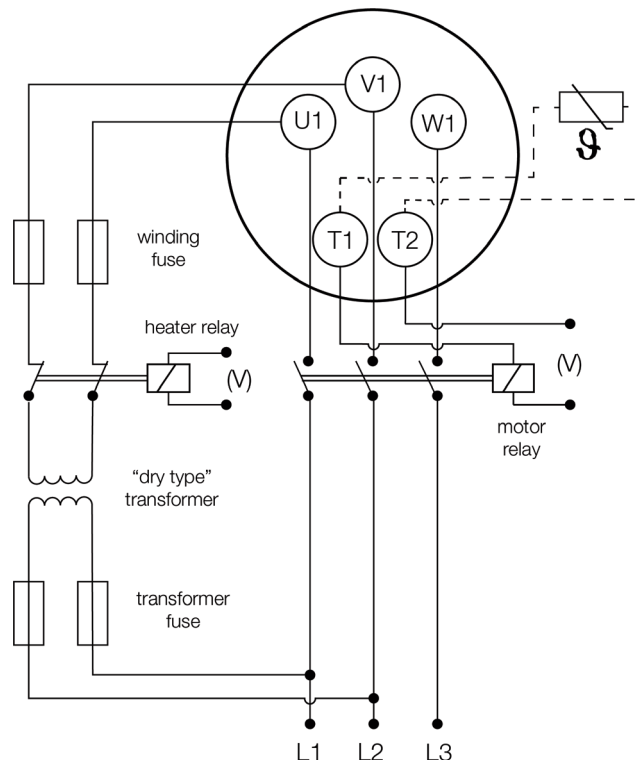
See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

Internal Anti-condensation Heating Element



Anti-condensation heating element must be connected in such a way that it is turned off during motor operation.

Trickle Voltage Heating





Precautions for Design, Installation and Maintenance

34) Connection Diagram for Motorized Pulleys

630H-800HD with optional thermal monitoring sensors and thermal protection switches

Terminals T1 & T2 for thermal protection switch **MUST BE CONNECTED** to external normally closed control circuit.

Terminals P1 & P2 for internal temperature sensor (either PT100 or PTC) must be connected to appropriate control architecture.

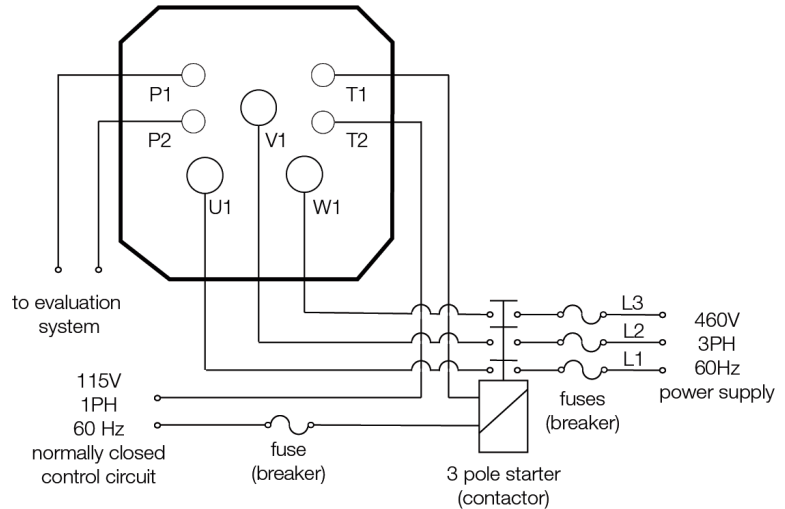
1000H - 1000HD with standard thermal monitoring sensors and thermal protection switches

Terminals T1 & T2 for thermal protection switch **MUST BE CONNECTED** to external normally closed control circuit.

This model is also available with optional built-in heating elements upon request.

See Technical Precautions pages 80-90 for complete electrical design, installation, and maintenance instructions.

Models 630H - 800HD
USA standard 460V power supply



Models 1000H - 1000HD
USA standard 460V power supply

