

WIRING DIAGRAM

(For "EM-1-3", and "EM-5" Two Pole, Single Phase, 3600 RPM, 115/230 Volt, Explosion-Proof Motors, with Built-in On-Off Switch, Manufactured by Reliance Electric.)

IMPORTANT NOTES:

There are three built-in features, which are (1) an automatic-reset THERMAL OVERLOAD PROTECTOR built into the windings, (2) a VOLTAGE CHANGER SWITCH located at the 6:00 position on the back end bell of the motor behind the fan as shown below, and (3) an auxiliary ON-OFF SWITCH extending out from the side of the rear bell housing.

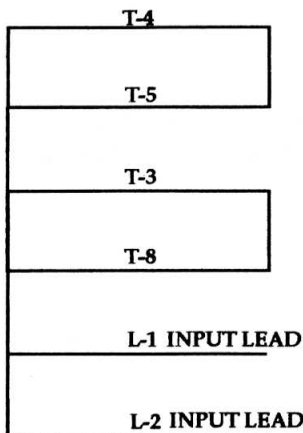
These motors have only SIX leads which have been externalized not for changing voltages, but only for changing directions of rotation. To *change the motor rotation*, interchange the "T-5" and the "T-8" leads *only*, as shown to the left. **FACTORY SHIPPED MOTORS ARE ALWAYS SET FOR 230 VOLTS. PUMP/MOTOR COMBINATIONS SHIPPED FROM THE FACTORY ARE ALWAYS SET FOR CORRECT ROTATION AND 230 VOLTS.**

If it is necessary to change the motor from one voltage to another, the following procedure should be followed:

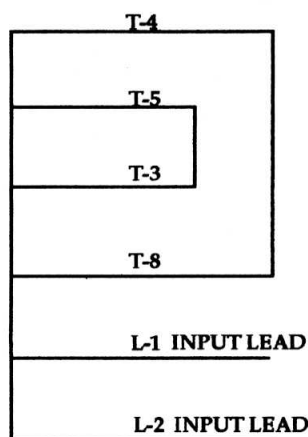
- (1) This can be done without removing the fan cover, provided the proper type of small bladed screwdriver is utilized. If a small bladed screwdriver is not available, then before proceeding, it will be necessary to remove the fan cover, before rotating the fan to align the access hole with the voltage switch plate (C) which acts as a knob on the end of the switch stem (B) that comes through the motor casing.
- (2) With the screwdriver loosen the retaining screw (A), but *do not remove it*. Be sure that the plate (C) is not allowed to come up off the end of the switch stem (B). The switch stem (B) must turn, when turning plate (C).
- (3) To move the plate (C), push it with the blade of the screwdriver, placed either above or below the corresponding side, until the position stamped with the desired voltage lines-up with the retaining screw (A).

Direction of rotation considered as viewed facing the fan cover of the motor.

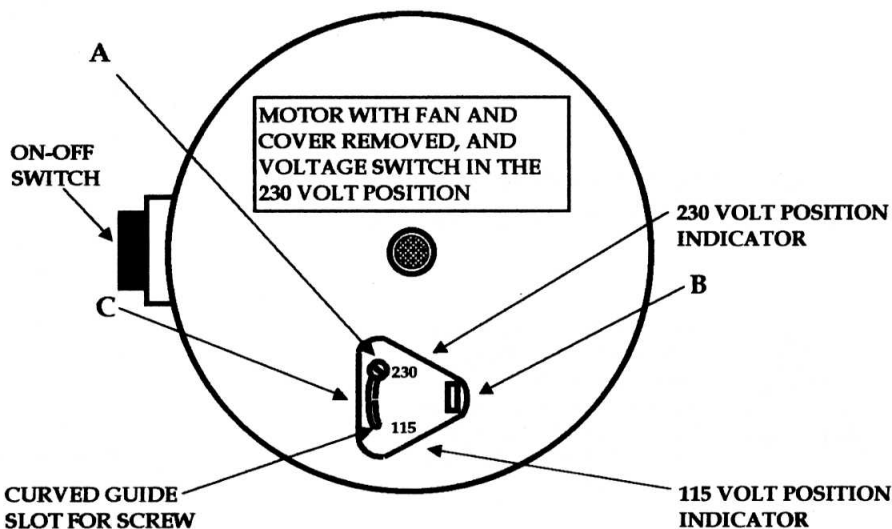
COUNTERCLOCKWISE ROTATION



CLOCKWISE ROTATION



MAKE SURE THE ELECTRIC MOTOR IS APPROPRIATELY GROUNDED. USE THE GROUND LEAD PROVIDED. IF THE GROUND LEAD IS NOT PROVIDED CONTACT THE FACTORY.



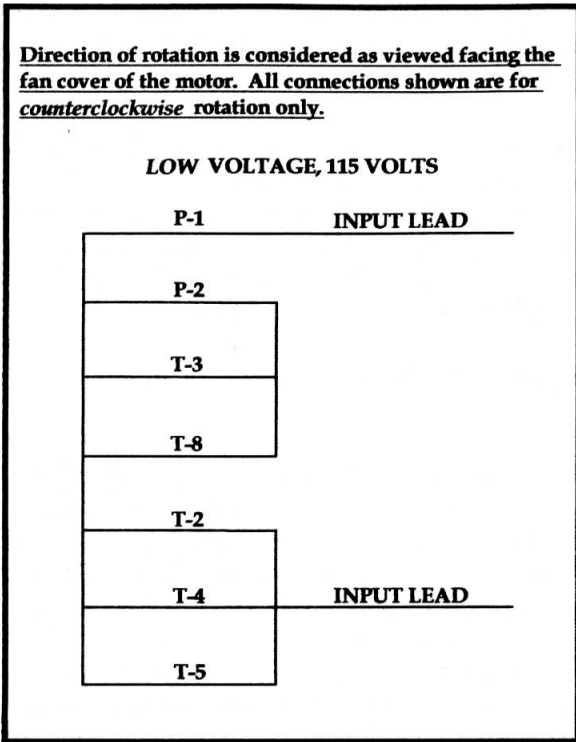
SMITH PRECISION PRODUCTS COMPANY

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1299 Lawrence Drive, Newbury Park, CA 91320 USA
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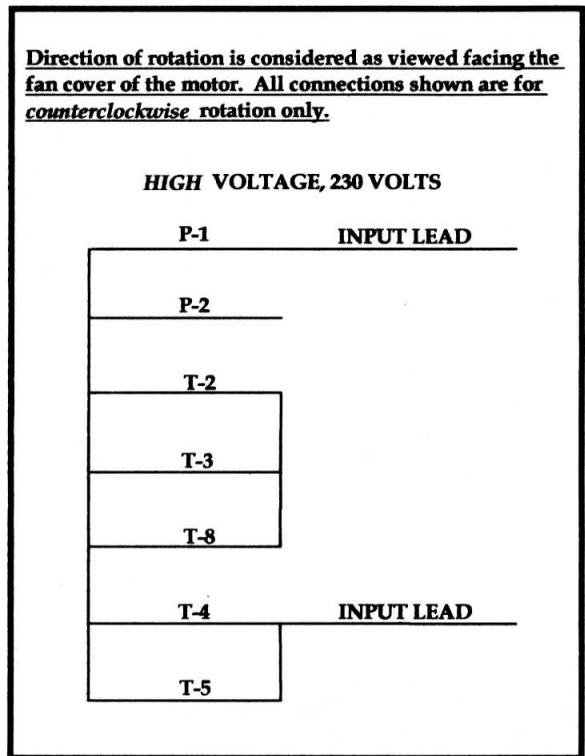
e-mail: SMPUMP1299@aol.com web: www.smithpumps.com

WIRING DIAGRAM

(For "EM 1-3D/R" Two Pole, Single Phase, 3600 RPM, 115/230 Volt, Explosion-Proof , and "EM-4", Two Pole Single Phase, 3000 RPM, 115/230 Volt, Explosion-Proof motors, Manufactured by Reliance Electric.)



NOTE: To change motor rotation, interchange the T-5 and T-8 leads.



All connections shown are for counterclockwise rotation only.



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