

NOTES:

THE REGULATOR COMPRISES A MOTOR DRIVEN VARIABLE AUTOTRANSFORMER, A BUCK-BOOST FIXED RATIO TRANSFORMER AND A MICROPROCESSOR BASED SOLID STATE CONTROL UNIT THAT AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT.

SPECIFICATIONS:

WAVEFORM DISTORTION — — — — — ZERO
 FREQUENCY RANGE — — — — — 47Hz TO 63Hz
 ACCURACY — — — — — ±1.0% #
 INTERNAL IMPEDANCE — — — — — EXTREMELY LOW
 PHASE SHIFT — — — — — NEGLIGIBLE
 EFFICIENCY — — — — — APPROXIMATELY 98%
 TEMPERATURE RANGE — — — — — 0°C (32°F) TO +50°C (122°F)

CONTROLS:

VOLTAGE METER: AN ANALOG 0-150 VAC METER IS PROVIDED TO READ THE OUTPUT VOLTAGE.

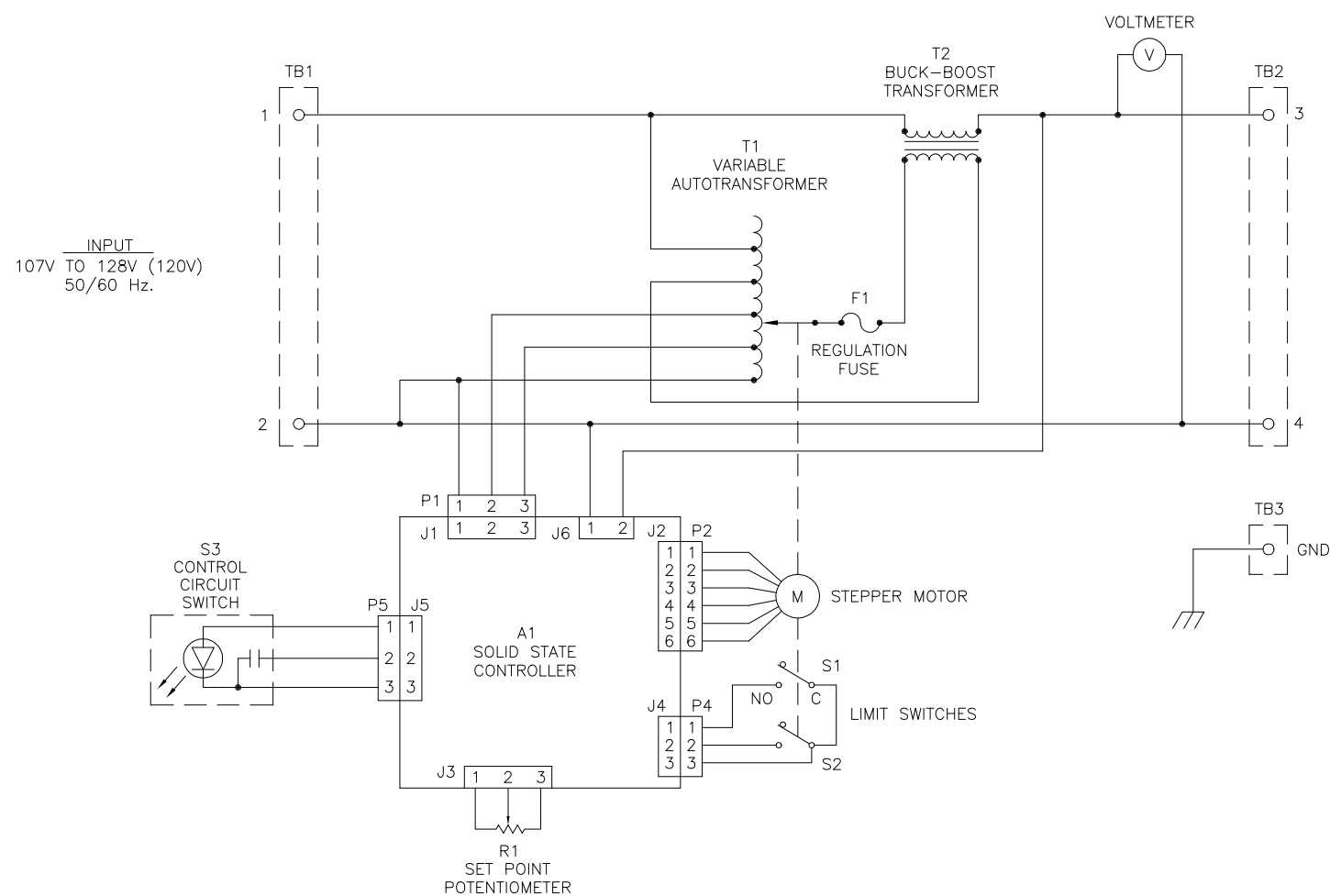
SET POINT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE THE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.

CONTROL CIRCUIT SWITCH: THIS ILLUMINATED PUSHBUTTON SWITCH IS PROVIDED TO INDICATE THAT THE CONTROL UNIT IS OPERATING WHEN ILLUMINATED AND AS A RESET SWITCH FOR THE MICROPROCESSOR.

REGULATION IS ±0.5% FOR +6% THRU -10% OF THE INPUT VOLTAGE RANGE.

* AT NOMINAL OUTPUT VOLTAGE. INPUT VOLTAGE RANGE (+7% TO -11%) SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.

++ INPUT RANGE IN VOLTS DIVIDED BY THE MOTOR DRIVE TRAVEL TIME IN SECONDS.



| SINGLE PHASE 50/60Hz | | | | |
|------------------------|----------------------|------------------------|--------------------|----------------------------------|
| NOMINAL OUTPUT VOLTAGE | INPUT VOLTAGE RANGE* | MAXIMUM OUTPUT AMPERES | RATED OUTPUT (KVA) | CORRECTION RATE (VOLTS/SECOND)++ |
| 120 | 107-128 | 125 | 15 | 21 |

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|--|-------|--------|--------|------------------------------|--|--|--|
| UNLESS OTHERWISE SPECIFIED, TOLERANCE IS # | | UNITS | | TITLE: SPEC. CONTROL DRAWING | | | |
| DECIMALS | Holes | ANGLES | DRAFT | IN [mm] | | | |
| .XX | .125 | 1° | 1-1/2° | | | DRAWN BY: S.A. SMITH DATE: 6/20/96 FIRST USED ON: DO NOT SCALE DWG. CHECKER: DATE: WEIGHT APPROX. CODE IDENT. NO. 83008 ENGINEER: DATE: SCALE .50=1 SHEET 1 OF 1 | |
| MATERIAL: | | | | | | DWG. NO. 095-1881 SHEET 1 OF 1 | |