

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	---	NEGLECTIBLE
EFFICIENCY	---	APPROXIMATELY 98%
TEMPERATURE RANGE	---	0°C (32°F) TO +50°C (122°F)

CONTROLS:

VOLTAGE METER: AN ANALOG 0-300 VAC METER IS PROVIDED TO READ THE OUTPUT VOLTAGE.

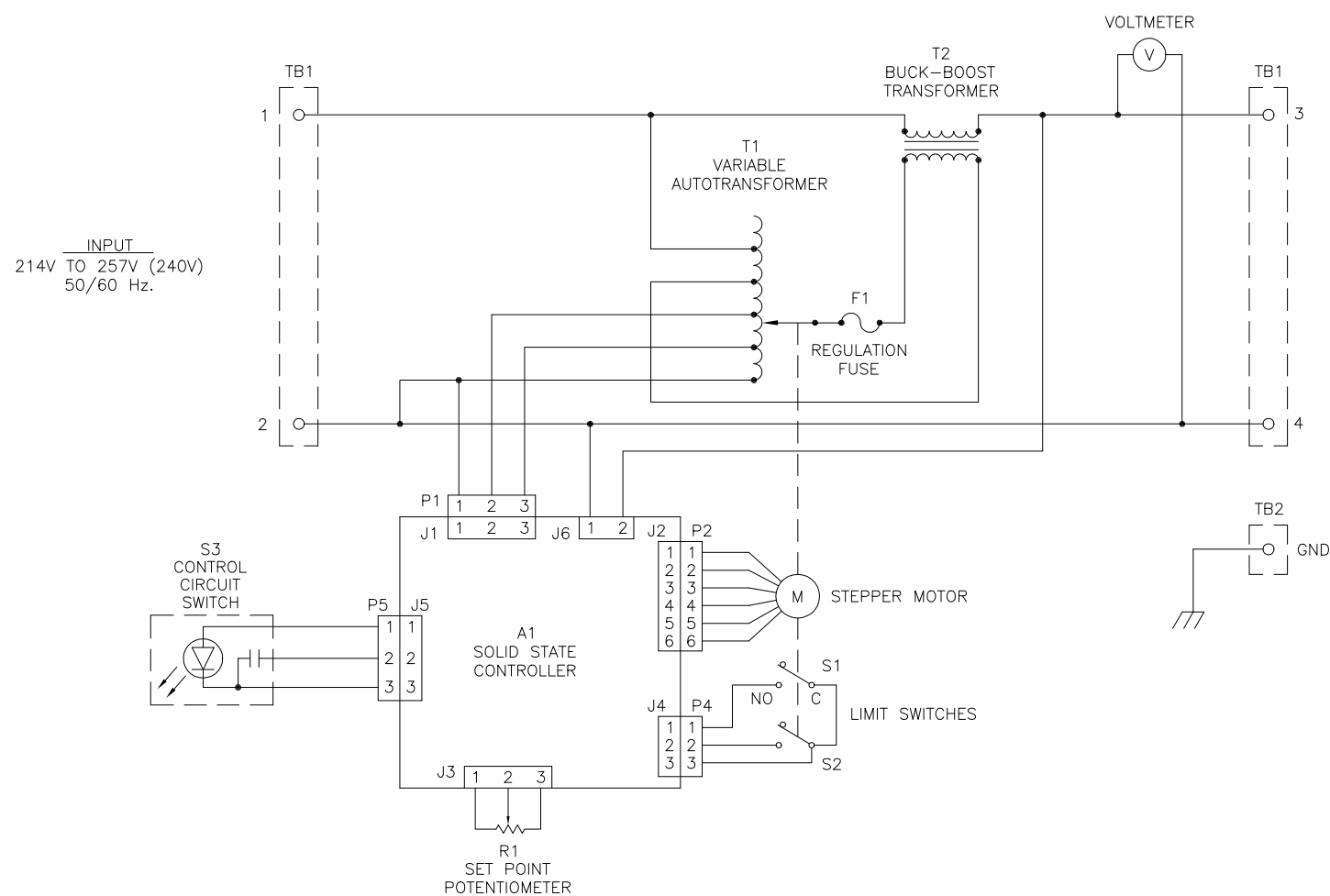
SET POINT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE THE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.

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)++
240	214-257	41.7	10	43

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #		UNITS		TITLE: SPEC. CONTROL DRAWING		STACO ENERGY PRODUCTS CO. DAYTON, OHIO U.S.A.	
DECIMALS	Holes	ANGLES	DRAFT	IN [mm]			
.XX	.125	1°	1-1/2°	ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY S.A. SMITH	
DATE 3/26/96		FIRST USED ON		DO NOT SCALE DWG.		CUSTOMER APPROVAL	
DATE		WEIGHT APPROX.		CODE IDENT. NO. 83008		DATE	
DATE		SCALE .50=1		SHEET 1 OF 1		DWG. NO. 095-1863	