



**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 +9% THRU -19% OF THE INPUT VOLTAGE RANGE.

\* AT NOMINAL OUTPUT VOLTAGE. INPUT VOLTAGE RANGE (+10% TO -20%) 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	96-132	20.8	2.5	36

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #		UNITS		TITLE: SPEC. CONTROL DRAWING		<b>STACO</b> 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	
MATERIAL:		DATE 6/20/96		FIRST USED ON		DO NOT SCALE DWG.	
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				ENGINEER		DATE	
				SCALE .50=1		SHEET 1 OF 1	
				DWG. NO. 095-1873		DATE	