







## 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 — — — O'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  $\pm 0.5\%$  FOR +5% THRU -9% OF THE INPUT VOLTAGE RANGE.
- \* AT NOMINAL OUTPUT VOLTAGE. INPUT VOLTAGE RANGE (+6% TO -10%) SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.

SCALE .50=1 SHEET 1 OF 1 D 095-1889

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

++ INFOL RAINGE IN VOLTS DIVIDED BY THE MOTOR DRIVE TRAVEL TIME IN SECONDS.									
	SINGLE PHASE 50/60Hz								
	NOMINAL	ominal in		MAXIMUN	/ RATE	D	CORRECTION		
	OUTPUT VOL		TAGE OUTPU		OUTP	JT	RATE		
	VOLTAGE RAI		NGE*	GE* AMPERES (KVA) (VOLT		LTS,	TS/SECOND)++		
	240	216	-254	62.5	15		38		
UNLESS OTHERWISE SPECIFIED. TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT .XX #040-12 .002 1° 1-1/2° IN [mm] .XXX .005			SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR						
MATERIAL : ALL DIMENSIONS APPLY AFTER PLATING			AUTO. MODI			24HBSN015		DAYTON, OHIO U.S.A.	
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			CHECKER	DATE	SCALE 50-1	CODE IDENT. NO. 83008	DWG. SIZE	DWG. NO. 095—1	889