



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 ----- 57Hz TO 63Hz
 ACCURACY ----- ±1.0% #
 INTERNAL IMPEDANCE ----- LESS THAN 1%
 PHASE SHIFT ----- NEGLIGIBLE
 EFFICIENCY ----- 99% TYPICAL
 TEMPERATURE RANGE ----- 0°C (32°F) TO +40°C (104°F)

INPUT/OUTPUT TERMINALS: (1) (#2/0-#14 AWG) COMPRESSION PER POLE
 GROUND TERMINAL: (1) (#2-#14 AWG) COMPRESSION

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, 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 +4% THRU -9% OF THE INPUT VOLTAGE RANGE.
- * AT NOMINAL OUTPUT VOLTAGE. INPUT VOLTAGE RANGE (+5% TO -10%) SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.
- ++ INPUT RANGE IN VOLTS DIVIDED BY THE MOTOR DRIVE TRAVEL TIME IN SECONDS.

SINGLE PHASE 60Hz				
NOMINAL OUTPUT VOLTAGE	INPUT VOLTAGE RANGE*	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)	CORRECTION RATE (VOLTS/SECOND)++
120	108-126	158	19	18

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #		UNITS		TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: SVR-12FASN019R		
DECIMALS	HOLES	ANGLES	DRAFT			IN [mm]
.XX	.125	.002	1°			1-1/2°
MATERIAL:				ALL DIMENSIONS APPLY AFTER PLATING		
DRAWN BY		DATE	FIRST USED ON	DO NOT SCALE DWG.	CUSTOMER APPROVAL	
TIM RAU		2/7/01				
CHECKER		DATE	WEIGHT APPROX.	CODE IDENT. NO.	DWG. NO.	
				83008	095-3123	
ENGINEER		DATE	SCALE	SHEET 1 OF 1		
			.50=1			