



EACH PHASE OF THE REGULATOR COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, A BUCK-BOOST FIXED RATIO TRANSFORMER, AND A MANUAL RAISE/LOWER SWITCH. THE MICROPROCESSOR CONTROLLER AUTOMATICALLY POSITIONS EACH OF THE AUTOTRANSFORMERS TO HOLD THE OUTPUT VOLTAGE OF EACH PHASE CONSTANT. A RS-232 INTERFACE IS PROVIDED FOR REMOTE OPERATION AND MONITORING.

SPECIFICATIONS:

WAVEFORM DISTORTION	-----	ZERO
FREQUENCY RANGE	-----	57Hz TO 63Hz
OUTPUT REGULATION	-----	±1V
CONTROL BAND (USER SELECTABLE)	-----	* ±0.5V, ±1.0V, ±2.0V, ±4.0V
CORRECTION RATE	-----	19 VOLTS/SECOND
INTERNAL IMPEDANCE	-----	LESS THAN 1%
PHASE SHIFT	-----	NEGLECTIBLE
EFFICIENCY	-----	99% TYPICAL
TEMPERATURE RANGE	-----	0°C (32°F) TO +40°C (104°F)
		* FACTORY SET AT ±0.5V

WIRE RANGES FOR CUSTOMER WIRING:

INPUT/OUTPUT/NEUTRAL TERMINALS: (1) (350MCM-#6 AWG) COMPRESSION PER PHASE
GROUND TERMINAL: (1) (1/0-#14 AWG) COMPRESSION

CONTROLS:

- MICROTERMINAL: THE TERMINAL IS PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT VOLTAGE READINGS. SEE THE MP USER'S HANDBOOK (FORM #003-1622) FOR DETAILED INFORMATION.
- CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE MICROPROCESSOR CONTROLLER ONLY.
- MOTOR ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER FROM THE MICROPROCESSOR TO EACH OF THE AUTOTRANSFORMER MOTORS.
- RAISE/LOWER SWITCHES: THESE SWITCHES ARE LOCATED INTERNALLY AND ARE ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCHES ALLOW FOR EACH PHASE OF THE REGULATOR TO BE MANUALLY CONTROLLED INDIVIDUALLY.

** AT NOMINAL OUTPUT VOLTAGE INPUT VOLTAGE RANGE
SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.

THREE PHASE (INDIVIDUAL LINE CONTROL)			60 HZ
OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
480Y/277	432-528	200	166
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS * DECIMALS .12 XX .004 XXX .002		UNITS IN [mm]	
Holes .12 Angles 1° Draft 1-1/2°		TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: CVR-48QCIY166	
MATERIAL:		DRAWN BY: TIM RAU DATE: 4/29/97 FIRST USED ON: DO NOT SCALE DWG. CUSTOMER APPROVAL: DATE:	
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		DWG. NO. 095-1930	

