



REMOVABLE ACCESS PANELS FRONT & REAR
RECOMMENDED AREAS FOR CONDUIT ENTRY.

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	NEGLIGIBLE
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: (2) (500MCM-#4 AWG) COMPRESSION PER PHASE
GROUND TERMINAL: (1) (2/0-#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	400	333
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS * DECIMALS .12 .002 XX .0005 XXX .005		UNITS IN (mm)	
Holes .12 Angles 1° Draft 1-1/2°		TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: CVR-48QCIY333	
MATERIAL:		DRAWN BY: TIM RAU DATE: 3/12/97	
ALL DIMENSIONS APPLY AFTER PLATING		FIRST USED ON: DO NOT SCALE DWG.	
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		ENGINEER: DATE: SCALE: .2=1 SHEET 1 OF 2	

