



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	---	47Hz TO 63Hz
OUTPUT REGULATION	---	±1%
CONTROL BAND (USER SELECTABLE)	---	* ±0.5V, ±1.0V, ±2.0V, ±4.0V
CORRECTION RATE	---	22 VOLTS/SEC
INTERNAL IMPEDANCE	---	EXTREMELY LOW
PHASE SHIFT	---	NEGLIGIBLE
EFFICIENCY	---	APPROXIMATELY 99%
TEMPERATURE RANGE	---	0°C (32°F) TO +50°C (122°F)

* FACTORY SET AT ±0.5V

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)			50/60 HZ.
OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
380Y/220	304-418	760	500
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		TITLE: SPEC. CONTROL DRAWING	
DECIMALS	Holes .12	ANGLES	DRAFT 1°
.XX	.002	1°	1-1/2°
XXX	.005	UNITS IN [mm]	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING	
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CHECKER: ENGINEER DATE: SCALE: .15=1 SHEET 1 OF 2		CODE IDENT. NO. 83008 DWG. NO. 095-3017	

