



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: (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	600	500

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS * DECIMALS .12 .002 XX .005 XXX .005		Holes .12 Angles 1° Draft 1-1/2°		UNITS IN [mm]	TITLE: SPEC. CONTROL DRAWING AUTO VOLTAGE REGULATOR TYPE: CVR-48QCIY500	 STACO ENERGY PRODUCTS CO. A COMPONENTS CORPORATION OF AMERICA COMPANY DAYTON, OHIO U.S.A.
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		DATE		
DRAWN BY		DATE	FIRST USED ON	DO NOT SCALE DWG.	CUSTOMER APPROVAL	DATE
CHECKER		DATE	WEIGHT APPROX.	CODE IDENT. NO. 83008	DWG. NO.	DATE
ENGINEER		DATE	SCALE .2=1	SHEET 1 OF 2	D	095-1915

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