



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	500	416

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS * DECIMALS .12 XX .005 XXX .005		Holes .002 Angles 1° Draft 1-1/2°	UNITS IN [mm]	TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: CVR-48QCIY416	<p>STACO ENERGY PRODUCTS CO. A COMPONENTS CORPORATION OF AMERICA COMPANY DAYTON, OHIO U.S.A.</p>
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING	SCALE .2=1	SHEET 1 OF 2	
DRAWN BY F. SEALE		DATE 11/10/97	FIRST USED ON	DO NOT SCALE DWG.	CUSTOMER APPROVAL
CHECKER		DATE	WEIGHT APPROX.	CODE IDENT. NO. 83008	DWG. NO. 095-1963
ENGINEER		DATE	SCALE	SHEET 1 OF 2	DWG. NO. 095-1963

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