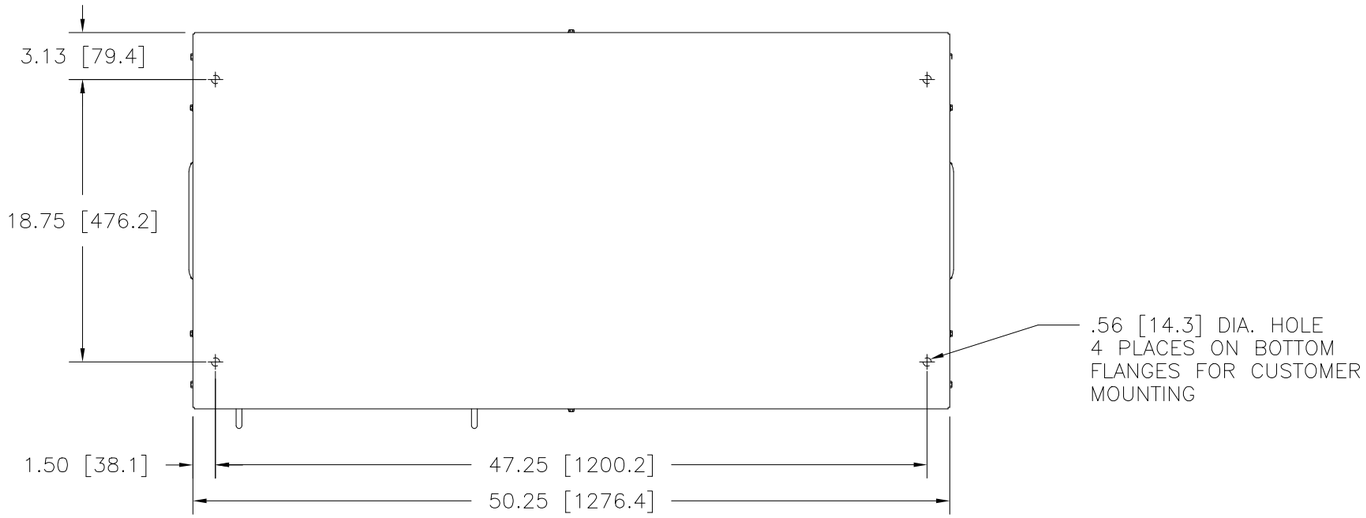
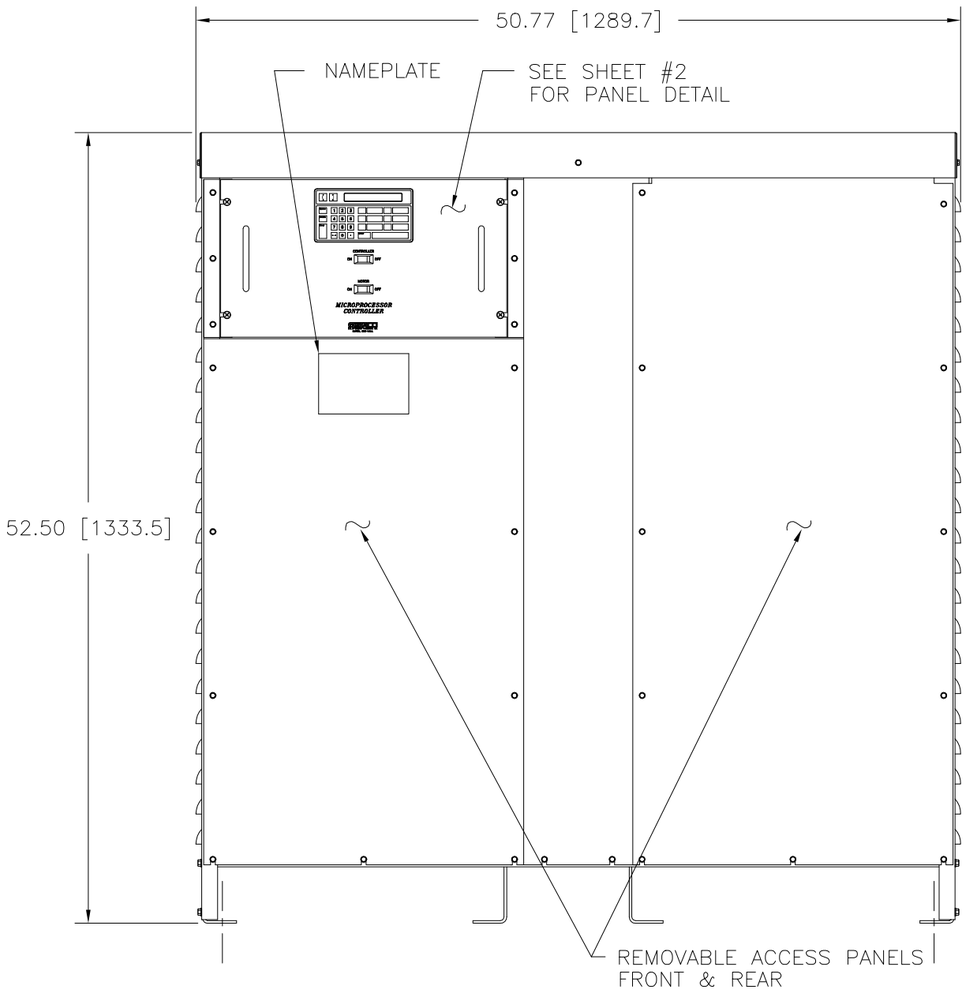
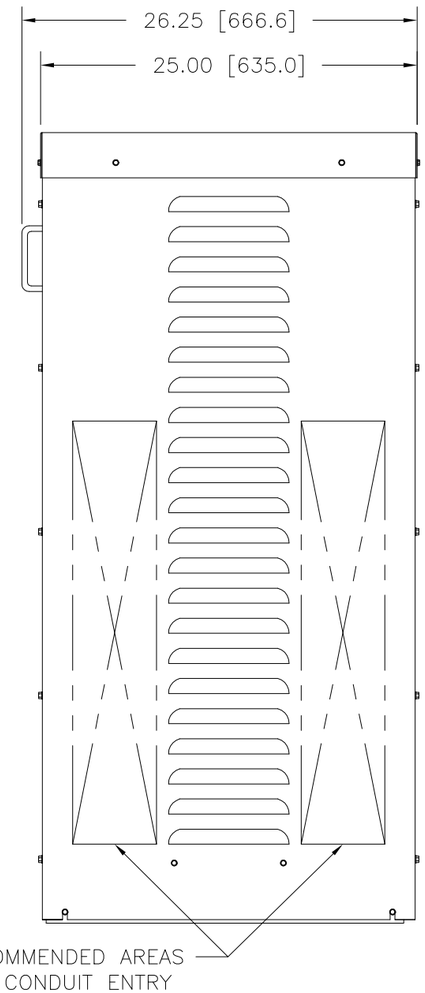
DWG. SIZE	DWG. NO.
D	095-3055

REVISIONS			
SYM.	E.C.N.	DATE	APVD.







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	24 VOLTS/SECOND
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) 60 HZ

OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
480Y/277	408-528	150	125

UNLESS OTHERWISE SPECIFIED. TOLERANCE IS ±
DECIMALS .XX ~~.010~~ .12 .XXX ~~.005~~ .002 HOLES .002 ANGLES 1° DRAFT 1-1/2°

UNITS IN [mm]

ALL DIMENSIONS APPLY AFTER PLATING

MATERIAL :

TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: MVR-48TCIY125

STACO ENERGY PRODUCTS CO. A COMPONENTS CORPORATION OF AMERICA COMPANY
DAYTON, OHIO U.S.A.

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DRAWN BY TIM RAU	DATE 7/26/99	FIRST USED ON	DO NOT SCALE DWG.	CUSTOMER APPROVAL	DATE
CHECKER	DATE	WEIGHT APPROX.	CODE IDENT. NO. 83008	DWG. SIZE D	DWG. NO. 095-3055
ENGINEER	DATE	SCALE .2=1	SHEET 1 OF 2		