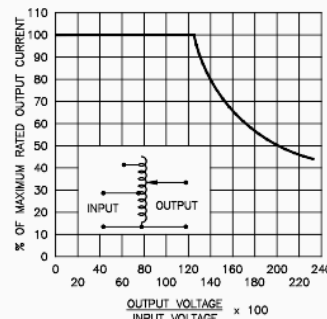




THE MICROPROCESSOR (MP) CONTROLLED VARIABLE TRANSFORMER (MV) COMPRISES A MOTOR DRIVEN AUTOTRANSFORMER AND A MANUAL RAISE/LOWER SWITCH. THE MP CONTROLLER AUTOMATICALLY POSITIONS EACH AUTOTRANSFORMER TO HOLD THE OUTPUT CONSTANT. A RS-232 INTERFACE IS PROVIDED ALONG WITH THE "S" OPTION FOR PROCESS CONTROL SET POINT. SYSTEM INCLUDES AMP METER READING CAPABILITY USING CT INPUT CONNECTOR WITH A 5 AMP SECONDARY.

SPECIFICATIONS:
 WAVEFORM DISTORTION-----ZERO ADDED
 FREQUENCY RANGE-----47Hz TO 63Hz
 OUTPUT REGULATION-----±1%
 CONTROL BAND (USER SELECTABLE)-----* ±0.5V, ±1.0V, ±2.0V, ±4.0V
 INTERNAL IMPEDANCE-----LESS THAN 1%
 PHASE SHIFT-----NEGLIGIBLE
 EFFICIENCY-----97% TYPICAL
 TEMPERATURE RANGE-----0°C (32°F) TO +40°C (104°F)
 MOTOR SPEED-----60 SECONDS EACH PHASE
 * FACTORY SET AT ±1.0V

WIRE RANGES FOR CUSTOMER WIRING
 INPUT/OUTPUT TERMINALS: (2) (300MCM-#6 AWG) COMPRESSION PER PHASE
 NEUTRAL TERMINALS: (4) (300MCM-#6 AWG) COMPRESSION, (2) INPUT, (2) OUTPUT
 GROUND TERMINAL: (1) (1/0-#14 AWG) COMPRESSION

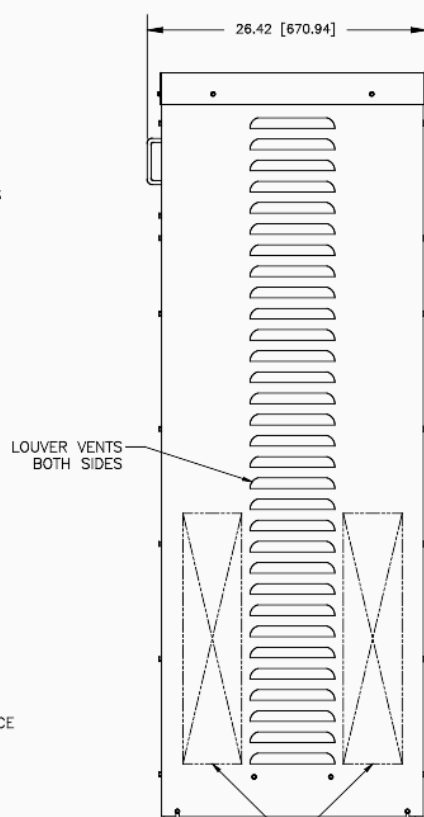
CONTROLS:
 KEYPAD & LCD DISPLAY: THE KEYPAD & LCD DISPLAY ARE PROVIDED FOR LOCAL/REMOTE CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT VOLTAGE AND CURRENT READINGS. SEE THE MPUI USER'S HANDBOOK (FORM #003-2530) FOR DETAILED INFORMATION.
 CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE MICROPROCESSOR CONTROLLER ONLY.
 MOTOR ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER FROM THE MICROPROCESSOR TO THE AUTOTRANSFORMER MOTORS.
 RAISE/LOWER SWITCHES: THESE SWITCHES ARE LOCATED INTERNALLY AND ARE ACCESSIBLE FROM THE FRONT AND REAR VIA THE REMOVABLE ACCESS PANELS. THE SWITCHES ALLOW FOR EACH PHASE OF THE MV TO BE CONTROLLED INDIVIDUALLY.

MAXIMUM OUTPUT CURRENT IN OUTPUT VOLTAGE RANGE FROM 0 TO 25% ABOVE LINE VOLTAGE. AT HIGHER OUTPUT VOLTAGES, OUTPUT CURRENT MUST BE REDUCED ACCORDING TO RATING CURVE, FIGURE A.

++ MAXIMUM KVA AT MAXIMUM OUTPUT AND CORRESPONDING DE-RATED CURRENT. MAXIMUM KVA AT LOWER OUTPUT VOLTAGES MAY BE CALCULATED FROM RATING CURVE, FIGURE A.

V.D.= VOLTAGE DOUBLER.

SPECIFICATIONS													
WIRING	INPUT		OUTPUT			SHAFT ROTATION FOR VOLTAGE INCREASE	TERMINAL CONNECTIONS FOR INCREASING VOLTAGE AS VIEWED FROM TOP						
	VOLTS	HERTZ	VOLTS	CONSTANT CURRENT LOAD			INPUT	OUTPUT					
				MAX. AMPS	MAX. KVA								
THREE PHASE	480/277	50/60	0-480	315	261.9	CW	4-4-4	D-D-D					
		60	0-560	315	305.5	CW	2-2-2	D-D-D					
	400/230	50	0-480	315	261.9	CW	2-2-2	D-D-D					
		240	60	0-560	315#-135 V.D.	130.8++	CW	5-5-5	D-D-D				
CALCULATE OTHERS: SPECIFIED VOLTAGE IS 4% TOLERANCE DESIGN 10% HIGHER 20% LOW				USERS IN (CIRCUIT)		SPEC. CONTROL DRAWING VARIABLE TRANSFORMER MV60M6020E-27YSA-IPC							
MINIMUM 1"				ALL DIMENSIONS UNLESS NOTED OTHERWISE		DRAWN BY: A.NECK DATE: 4/30/26 CHECKED: DATE DATE: NA ENGINEER: DATE				FIRST USED ON: NO MET VOLTAGE APPROX. CODE: 83008 SHEET 1 OF 3			
The information and design electrical details are submitted by user to be primary or secondary product of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission of STACO ENERGY PRODUCTS CO. and are not to be used for any other purpose without the written permission													



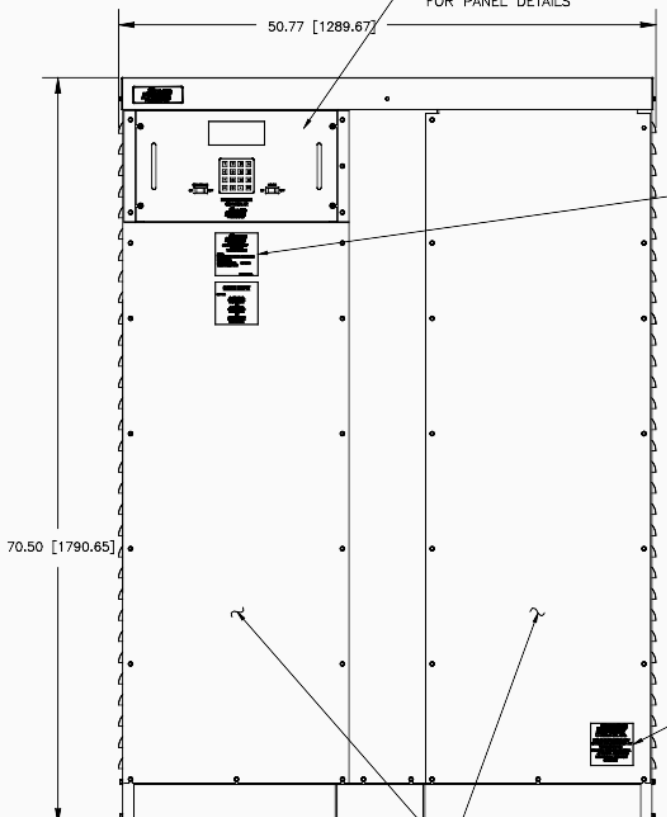
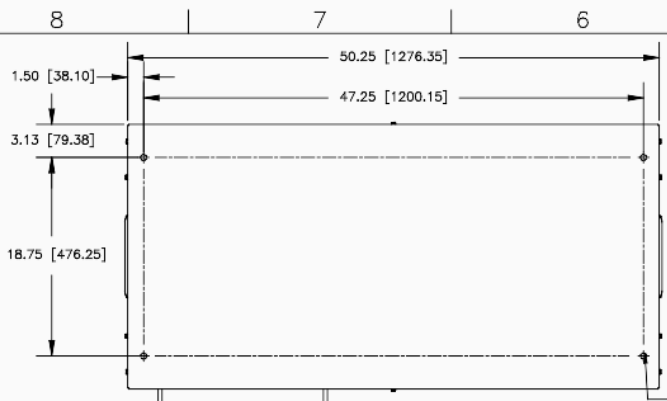
.56 [14.3] DIA. HOLE
 4 PLACES ON BOTTOM
 FLANGES FOR CUSTOMER
 MOUNTING

SEE SHEET #2
 FOR PANEL DETAILS

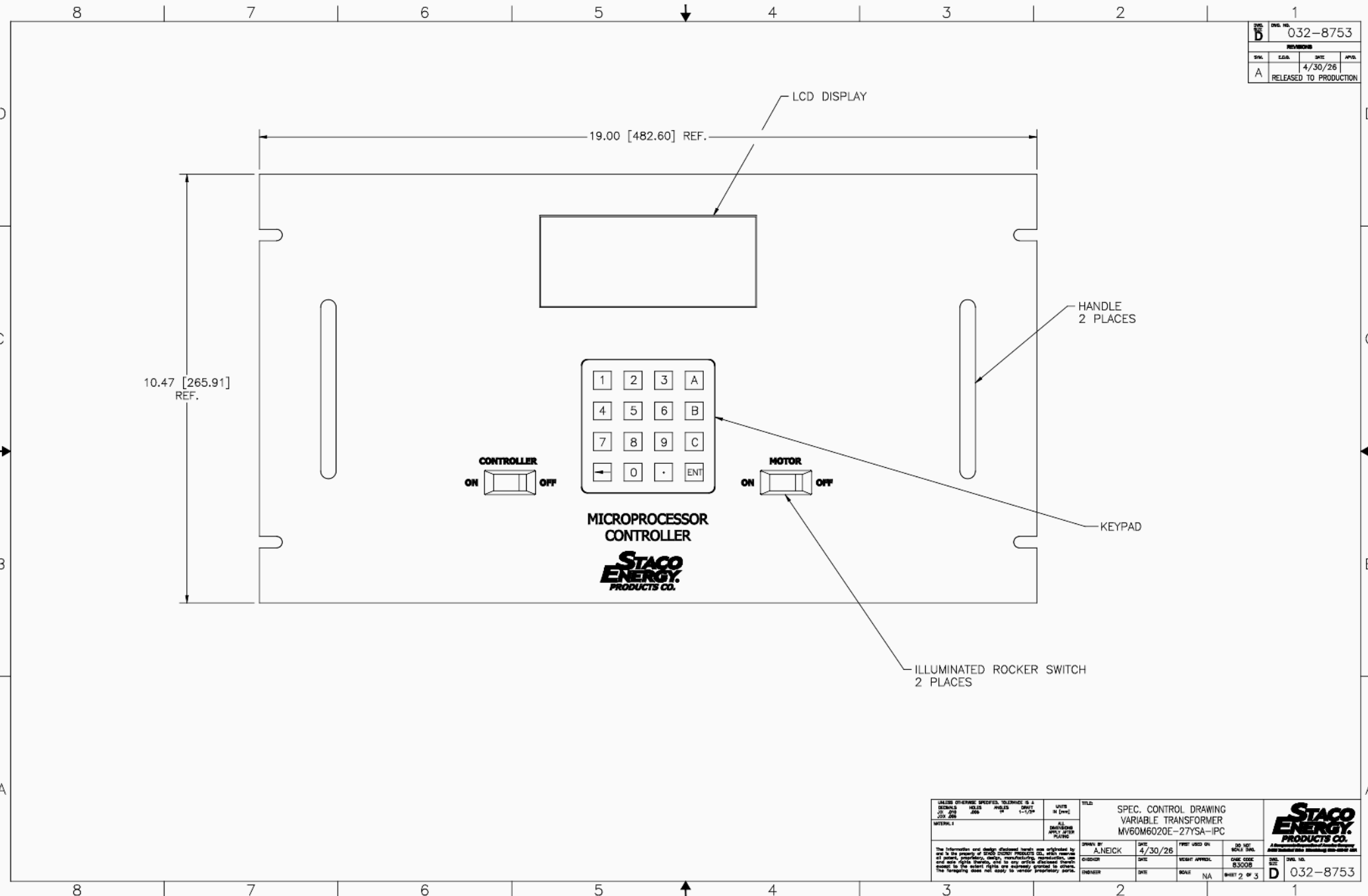
NAMEPLATES

FIELD SERVICE LABEL

ACCESS PANEL TO
 FUSES & TERMINALS



DWG. NO.	032-8753		
REV.	B		
REVISIONS			
SN.	ED.	DATE	APV.
A		4/30/26	
RELEASED TO PRODUCTION			



UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: DIMENSIONS FRACTIONS DECIMALS ANGLES HOLE DIA SPACINGS 1-1/16" 1-1/32" 1-1/64"				TITLE SPEC. CONTROL DRAWING VARIABLE TRANSFORMER MV60M6020E-27YSA-IPC			
DRAWN BY A. NEICK				DATE 4/30/26			
CHECKED BY G. SCHUB				DATE 5/1/26			
ENGINEER G. SCHUB				DATE 5/1/26			
FIRST USED ON MV60M6020E-27YSA-IPC				SCALE 1"=1'-0"			
SHEET USED ON MV60M6020E-27YSA-IPC				SHEET NO. 2 OF 3			
DWG. NO. 032-8753				REV. B			



