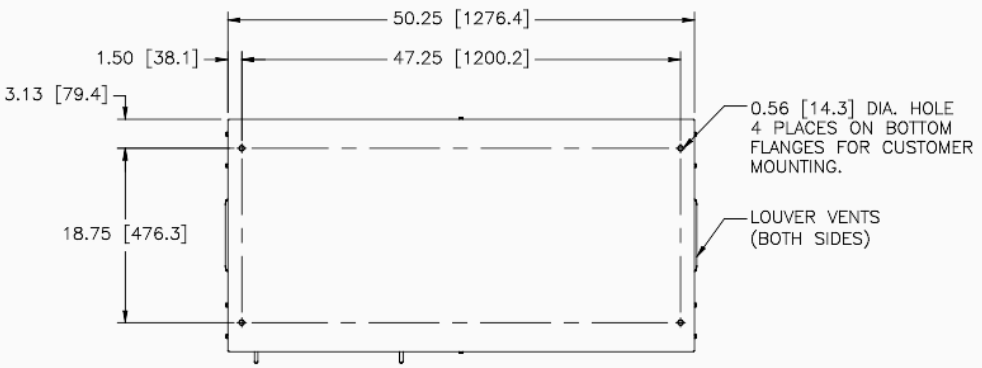
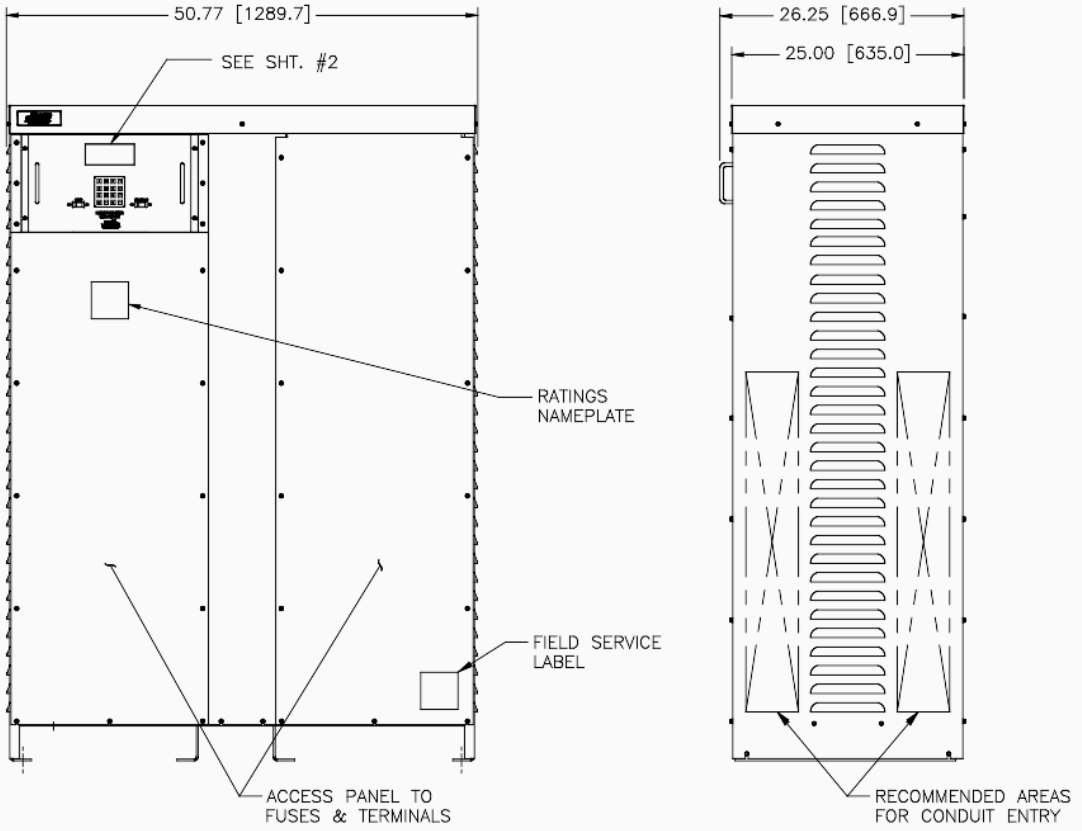
DWG SIZE	DWG. NO.
D	094-6436

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	RELEASED TO PRODUCTION		





THE PROVIDER POWER SYSTEM (PPS) COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER CONNECTED TO A TAPPED AUTOTRANSFORMER AND A MANUAL RAISE/LOWER SWITCH. THE TAPPED AUTOTRANSFORMER PROVIDES THE CUSTOMER SELECTABLE OUTPUT VOLTAGES VIA OUTPUT TERMINAL BLOCKS. THE MICROPROCESSOR CONTROLLER AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT. A RS232, ALONG WITH RS485 AND 4-20mA INTERFACE ARE INCLUDED WITH THE "S" OPTION FOR REMOTE OPERATION AND MONITORING.

SPECIFICATIONS:

WAVEFORM DISTORTION: ---------- ZERO ADDED
FREQUENCY RANGE: ---------- 47 HZ TO 63 HZ
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: ---------- 30 SECONDS

* FACTORY SET AT ±1.0V

WIRE RANGES FOR CUSTOMER WIRING:

480V INPUT TERMINALS: (1) (2/0-#14) COMPRESSION PER PHASE
600V & 480V OUTPUT TERMINALS: (1) (2/0-#14) COMPRESSION PER PHASE
240V OUTPUT/NEUTRAL TERMINALS: (1) (350MCM-#6) COMPRESSION PER PHASE
GROUND TERMINAL: (1) (1/0-#14 AWG) COMPRESSION LUG

CONTROLS:

KEYPAD & LCD DISPLAY: THE KEYPAD & LCD DISPLAY ARE PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT VOLTAGE READINGS. SEE THE MPII 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 MOTOR.

RAISE/LOWER SWITCH: THIS SWITCH IS LOCATED INTERNALLY AND IS ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCH ALLOWS THE PPS TO BE MANUALLY CONTROLLED.

RATINGS:

INPUT:	OUTPUT (TAP VOLTAGE):	MAX AMPS/TAP:
480 VOLTS	(240) 0-288 VOLTS	210A
3-PHASE	(480) 0-575 VOLTS	105A
3-WIRE	(600) 0-719 VOLTS	84A
60 HZ	105 KVA	
	(3 OR 4 WIRE SELECTABLE)	

OR:

INPUT:	OUTPUT (TAP VOLTAGE):	MAX AMPS/TAP:
400 VOLTS	(200) 0-240 VOLTS	210A
3-PHASE	(400) 0-480 VOLTS	105A
3-WIRE	(500) 0-600 VOLTS	84A
50 HZ	87 KVA	
	(3 OR 4 WIRE SELECTABLE)	

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .005 .XXX .010 | HOLES .005 | ANGLES 1° | DRAFT 1-1/2° | UNITS IN [mm] | ALL DIMENSIONS APPLY AFTER PLATING | MATERIAL #

The information and design disclosed hereon was originated by and is the property of STACO ENERGY PRODUCTS CO., which reserves all patent, proprietary, design, manufacturing, reproduction, use and sale rights thereto, and to any article disclosed thereon except to the extent rights are expressly granted to others. The foregoing does not apply to vendor proprietary parts.

TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-48LSE105-M

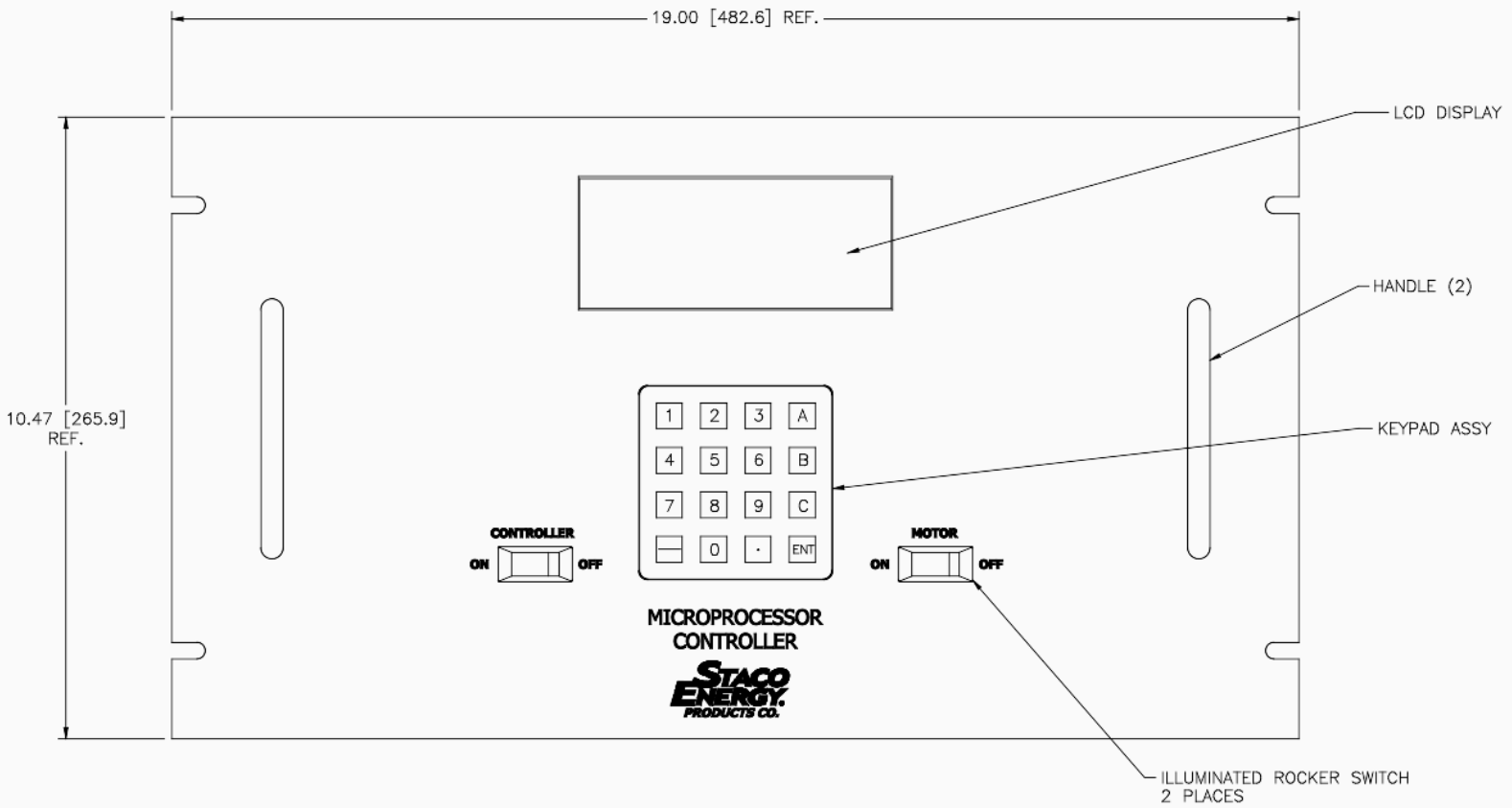
DRAWN BY	B FOX	DATE 2/12/24	FIRST USED ON
CHECKED	SHORE	DATE 5/7/2024	VENDOR APPROVAL
ENGINEER	B FOX	DATE 2/12/2024	SCALE .15

DO NOT SCALE DWG. | CAGE CODE 83008 | SHEET 1 OF 3 | DWG SIZE D | DWG. NO. 094-6436

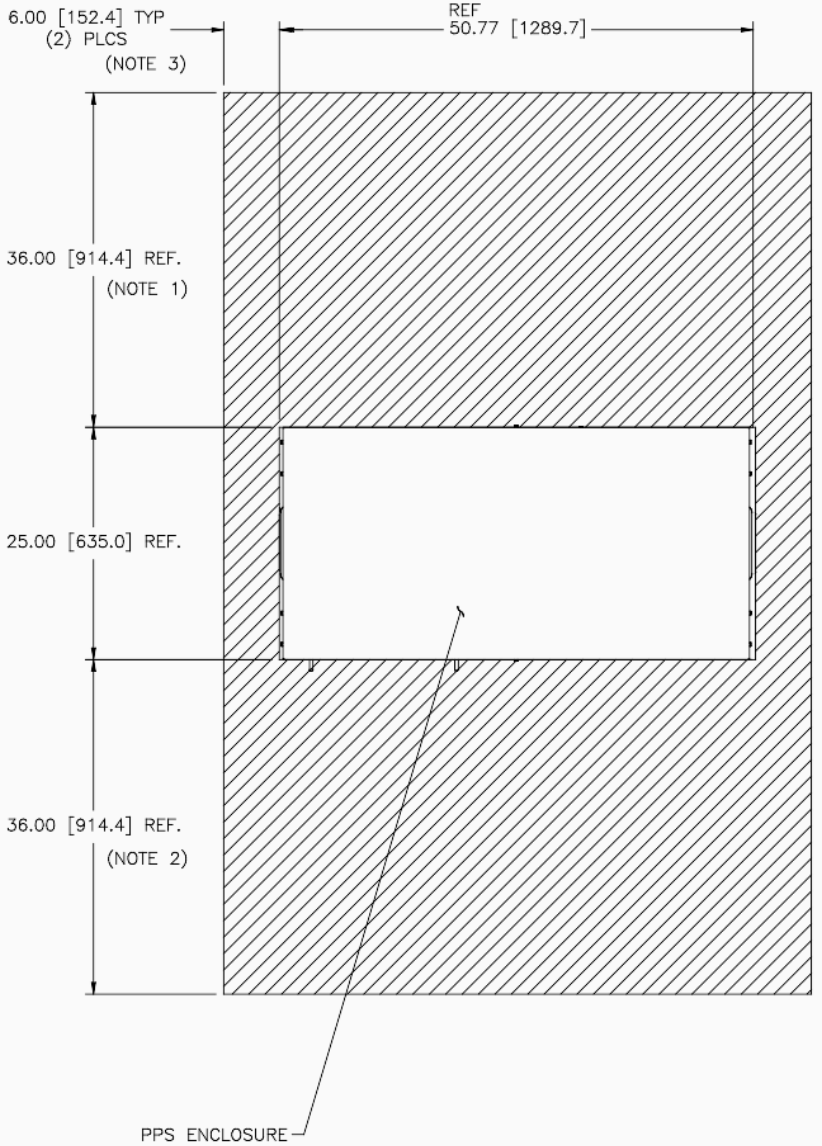
STACO ENERGY PRODUCTS CO.

SIZE	DWG. NO.
D	094-6436

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	RELEASED TO PRODUCTION		



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .010 .XXX .005 HOLES .005 ANGLES 1° DRAFT 1-1/2°	UNITS IN [mm]	TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM TYPE: PPS-48LSE105-M	STACO ENERGY. PRODUCTS CO.
MATERIAL:	ALL DIMENSIONS APPLY AFTER PLATING		
The information and design disclosed hereon are originated by and is the property of STACO ENERGY PRODUCTS CO., which reserves all patent, proprietary, design, manufacturing, reproduction, use and sale rights thereto, and to any article disclosed therein except to the extent rights are expressly granted to others. The foregoing does not apply to vendor proprietary parts.		DRAWN BY B FOX DATE 2/12/24	FIRST USED ON / DO NOT SCALE DWG.
		CHECKED SHORE DATE 5/7/24	VENDOR APPROVAL / CAGE CODE 83005
		ENGINEER B FOX DATE 2/12/24	SCALE 1/1 SHEET 2 OF 3
			SIZE D DWG. NO. 094-6436



NOTES:

1. REAR CLEARANCE REQUIRED FOR MAINTENANCE. 36" IS RECOMMENDED WITH 24" MINIMUM TO ASSIST IN BRUSH REPLACEMENT.
2. FRONT CLEARANCE REQUIRED PER CODE REQUIREMENTS. 36" IS TYPICAL REQUIREMENT. CHECK LOCAL CODES AS REQUIRED.
3. SIDE CLEARANCE REQUIRED FOR COOLING. 6" IS RECOMMENDED BUT 3" IS ABSOLUTE MINIMUM FOR PROPER COOLING.

TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-48LSE105-M			
DRAWN BY: SHORE	DATE: 5/7/24	FIRST USED ON	DO NOT SCALE DWG.
CHECKED: SHORE	DATE: 5/7/24	WEIGHT APPROX.	CAGE CODE: 83005
ENGINEER: SHORE	DATE: 5/7/24	SCALE: 0.15	SHEET 3 OF 3
			SIZE: D
			DWG. NO.: 094-6436

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	RELEASED TO PRODUCTION		

DWG. SIZE D DWG. NO. 094-6436

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