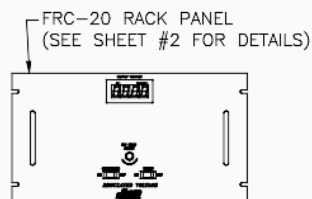
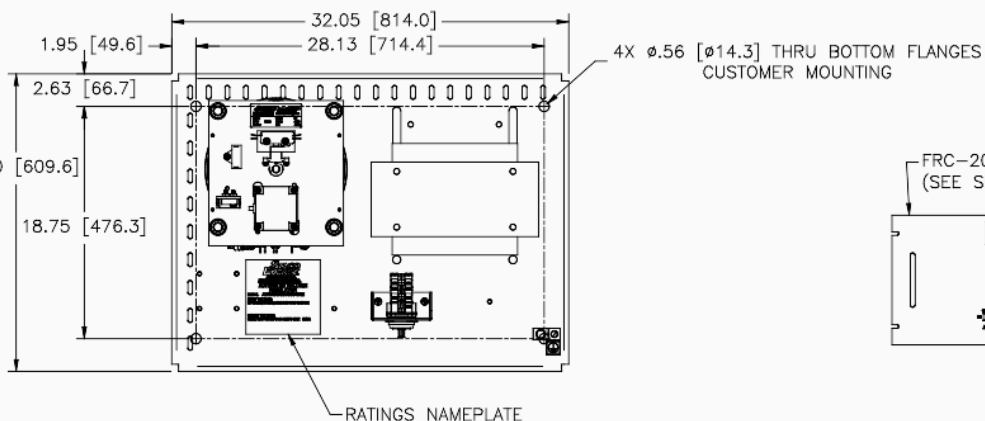


DWG. NO. D	095-3720		
REVISIONS			
REV.	E.D.	DATE	APPR.
A		5/15/26	AN
RELEASED TO PRODUCTION			



THE REGULATOR COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, BUCK-BOOST FIXED RATIO TRANSFORMERS, A MANUAL RAISE/LOWER SWITCH AND A SOLID STATE CONTROL UNIT THAT AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT. A 0-600 VOLT DIGITAL VOLTMETER IS PROVIDED. THE WIRING FOR THIS REGULATOR IS TO BE COMPLETED BY THE MANUFACTURER ACCORDING TO SCHEMATIC 670-4547.

SPECIFICATIONS:
 WAVEFORM DISTORTION-----ZERO ADDED
 FREQUENCY RANGE-----57 HZ TO 63 HZ
 ACCURACY----- $\pm 1\%$
 INTERNAL IMPEDANCE-----LESS THAN 1%
 CORRECTION RATE-----28 VOLTS/SECOND
 PHASE SHIFT-----NEGLECTIBLE
 EFFICIENCY-----97% TYPICAL
 TEMPERATURE RANGE-----0°C (32°F) TO +40°C (104°F)
 MOTOR SPEED-----5 SECONDS

WIRE RANGES FOR CUSTOMER WIRING:
 SEE SCHEMATIC 670-4548 FOR TERMINAL CONNECTIONS.

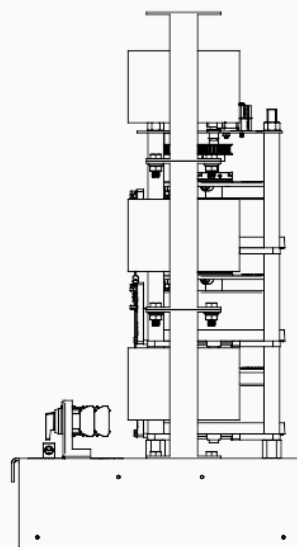
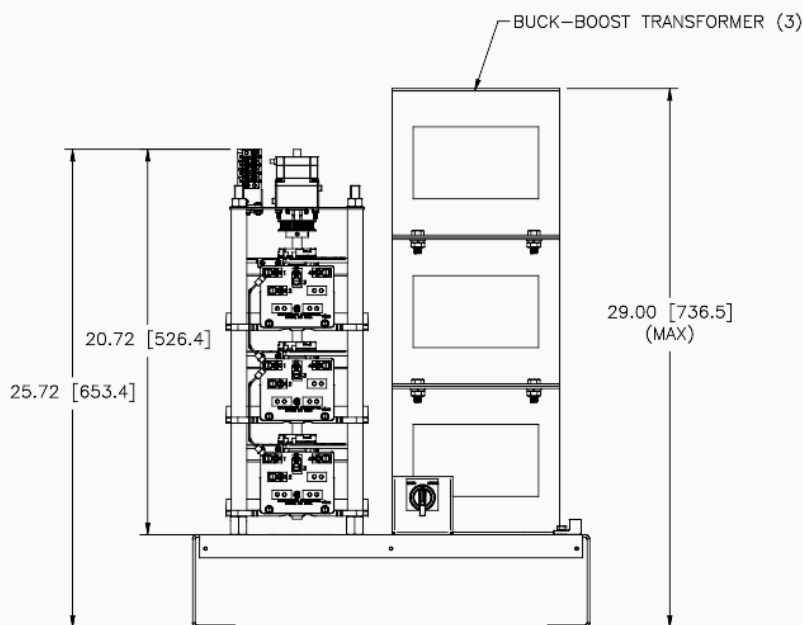
CONTROLS:
 CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE CONTROLLER AND DIGITAL VOLTMETER.
 MOTOR ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE CONTROLLER OUTPUT.
 OUTPUT ADJUSTMENT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.
 VOLTMETER: THE DIGITAL VOLTMETER INDICATES THE REGULATED OUTPUT VOLTAGE SETTING.
 RAISE/LOWER SWITCH: THIS SWITCH IS LOCATED ON THE UNIT BASE. THE SWITCH ALLOWS THE REGULATOR TO BE MANUALLY CONTROLLED.

NOTE:
 SEE THE FRC-20 USER'S HANDBOOK, FORM #003-1922 FOR DETAILED INFORMATION.

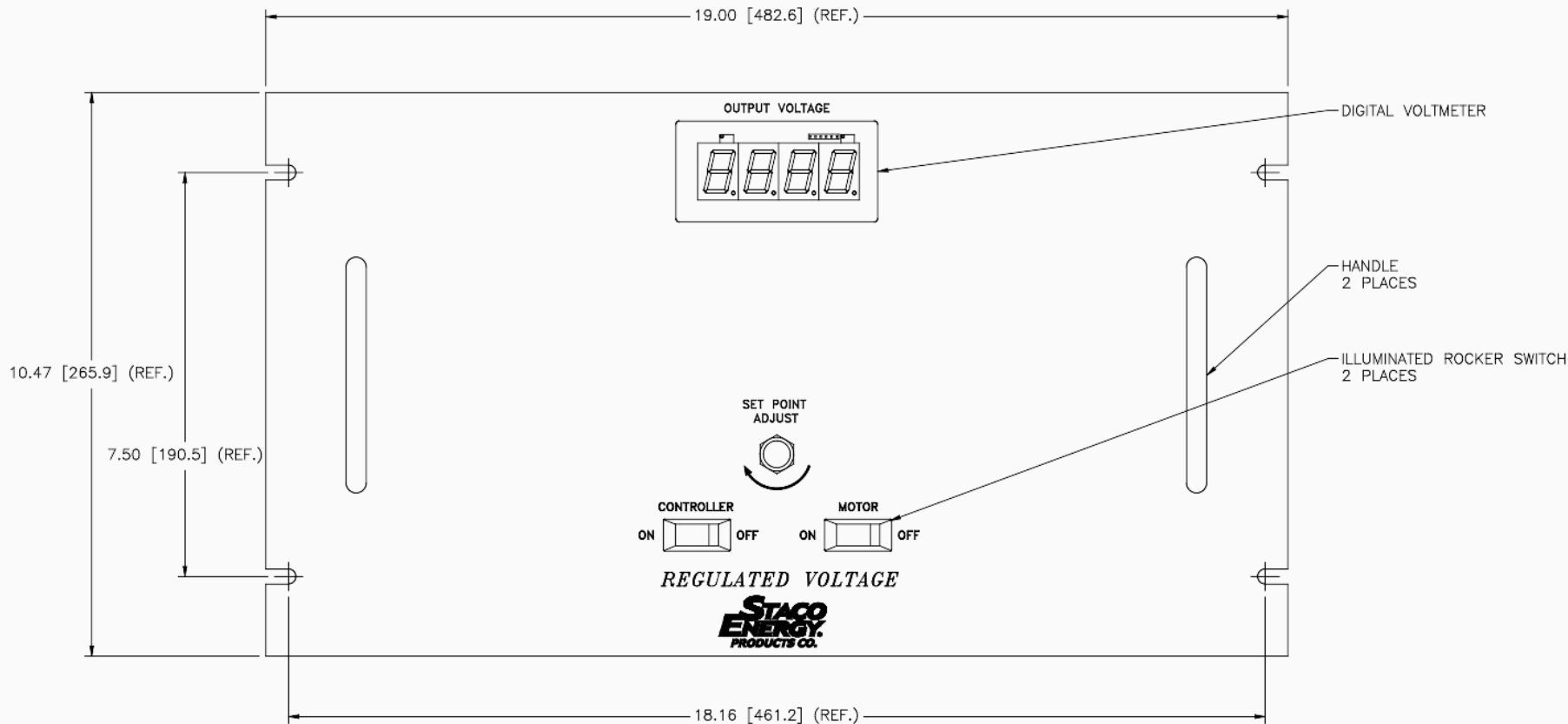
**** AT NOMINAL OUTPUT VOLTAGE. INPUT VOLTAGE RANGE SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.**

4 WIRE INPUT/OUTPUT			
THREE PHASE (SINGLE LINE CONTROL) 60Hz			
OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
208Y/120V	166-229	14	005
MAXIMUM EFFICIENCY SPECIFIED TOLERANCE IS $\pm 1\%$ (DETAILS) VOLTS AMPS 1-1/2" DIA 100 AMP		TITLE: SPEC. CONTROL DRAWING AUTO VOLTAGE REGULATOR AVR-20WCSY005-OEM DESIGNED BY: LBRAGG DATE: 5/19/2026 CHECKED BY: LBRAGG DATE: 5/19/2026 THE INFORMATION AND DATA CONTAINED HEREIN ARE UNCLASSIFIED AND ARE NOT TO BE RELEASED TO THE PUBLIC WITHOUT THE WRITTEN AUTHORIZATION OF STACO ENERGY PRODUCTS CO.	
DESIGNED BY: ANEICK DATE: 5/15/26 CHECKED BY: LBRAGG DATE: 5/19/2026 ENGINEER: LBRAGG DATE: 5/19/2026		FIRST USED ON: NO NET. SCALE: 1:1 SECOND APPROVAL: DATE CODE: 83008 SCALE: AN SHEET 1 OF 2	DWG. NO.: 095-3720 DWG. SIZE: D

STACO ENERGY PRODUCTS CO.
 AUTOTRANSFORMER REGULATING AND MORE



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DATE	5/8/26
BY	AN
RELEASED TO PRODUCTION	



UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE:				TITLED			
DETAILS	FOLDS	ANGLES	DRILLS	SPEC. CONTROL DRAWING			
0.015	0.015	0.015	0.015	AUTO VOLTAGE REGULATOR			
0.015	0.015	0.015	0.015	AVR-20WCSY005-OEM			
MATERIALS				DRAWN BY			
				A. NEICK			
				DATE			
				5/15/26			
				CHECKED			
				L. BRAGG			
				DATE			
				5/19/2026			
				ENGINEER			
				L. BRAGG			
				DATE			
				5/19/2026			
				SCALE			
				AN			
				SHEET 2 OF 2			
				DWG. NO.			
				095-3720			

