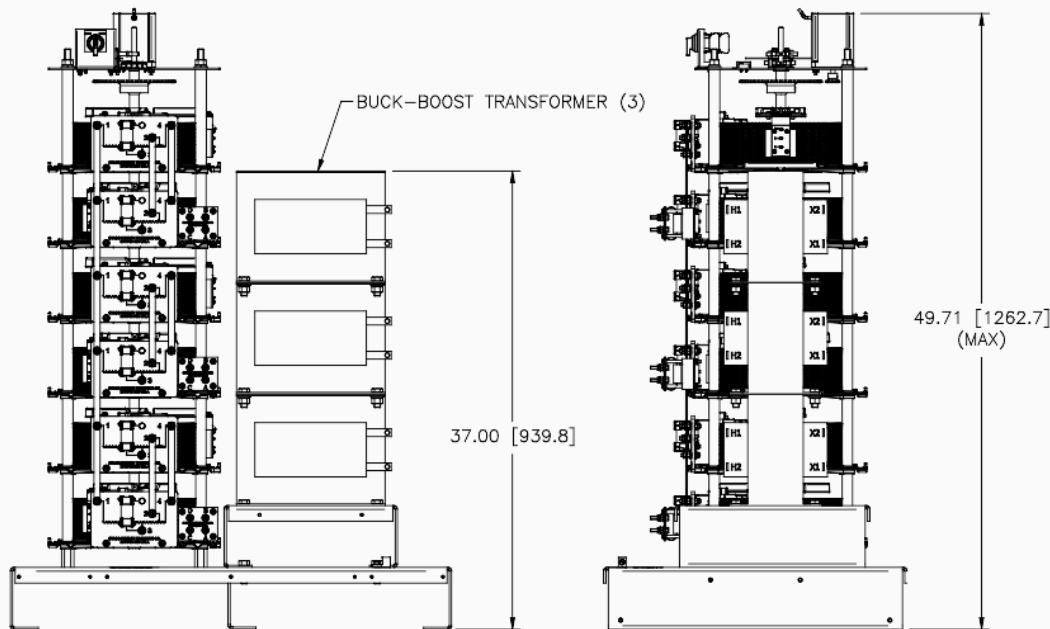
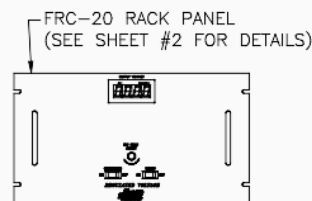
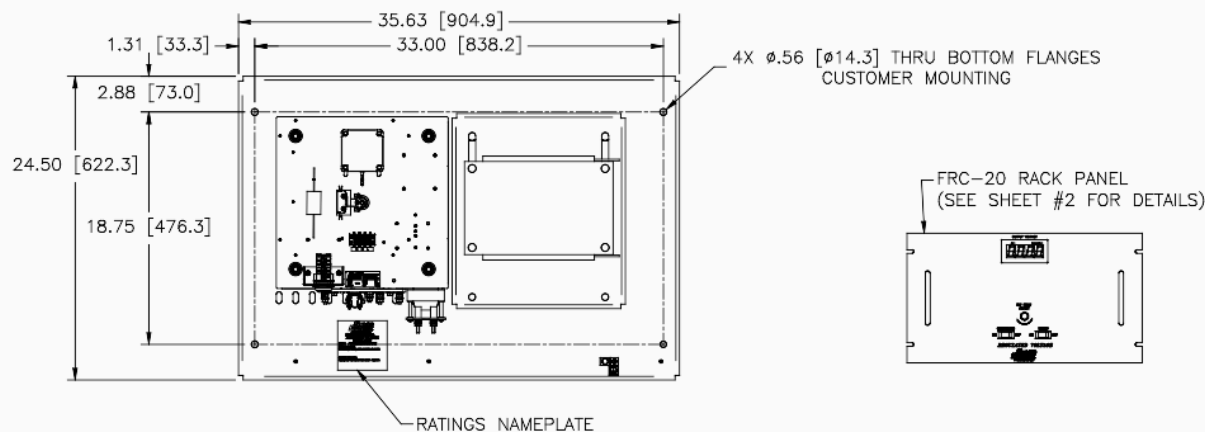


DWG. NO.		095-3710	
REVISIONS			
S/N	E.O.	DATE	APPROV.
B	30376	4/16/26	NLJ
ADDED HEX FEET			



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 670-4456.

SPECIFICATIONS:
 WAVEFORM DISTORTION-----ZERO ADDED
 FREQUENCY RANGE-----57 HZ TO 63 HZ
 ACCURACY-----±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 670-4456 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 MOTOR PLATE. 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.**

3 WIRE DELTA INPUT/OUTPUT THREE PHASE (SINGLE LINE CONTROL) 60Hz			
OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
208Y/120V	166-229	278	100
SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR AVR-20WCSY100-OEM			
DESIGNED BY N.JONES CHECKED BY L.BRAGG DATE 6/3/2025 6/5/25		DATE 6/3/2025 6/5/25 SCALE N/A SHEET 1 OF 2	
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