THE REGULATOR COMPRISKS A MOTOR DRIVER CIRCUIT, A BUCK-BOOST FIXED RATIO TRANSFORMER AND A MICROPROCESSOR BASED SOLID STATE CONTROL UNIT THAT AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT.

SPECIFICATIONS:
- WAVEFORM DISTORTION: 0%
- FREQUENCY RANGE: 57Hz to 63Hz
- ACCURACY: ±1% #
- INTERNAL IMPEDANCE: LESS THAN 1%
- PHASE SHIFT: NEGIBLE
- EFFICIENCY: 93% TYPICAL
- TEMPERATURE RANGE: 0°C (32°F) TO +40°C (104°F)

INPUT/OUTPUT TERMINALS: (1) #2/0-#14 AWG COMPRESSION PER POLE
GROUND TERMINAL: (1) #2-#14 AWG COMPRESSION

CONTROLS:
- VOLTAGE METER: AN ANALOG 0-150 VAC METER IS PROVIDED TO READ THE OUTPUT VOLTAGE.
- SET POINT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE THE OUTPUT VOLTAGE SET POINT, COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.
- CONTROL CIRCUIT SWITCH: THIS ILLUMINATED PUSHBUTTON SWITCH IS PROVIDED TO INDICATE THAT THE CONTROL UNIT IS OPERATING WHEN ILLUMINATED AND AS A RESET SWITCH FOR THE MICROPROCESSOR.

# REGULATION IS ±0.5% FOR +1% THRU -9% OF THE INPUT VOLTAGE RANGE.
* AT NOMINAL OUTPUT VOLTAGE, INPUT VOLTAGE RANGE (+5% TO -10%) SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.
++ INPUT RANGE IN VOLTS DIVIDED BY THE MOTOR DRIVE TRAVEL TIME IN SECONDS.

<table>
<thead>
<tr>
<th>SINGLE PHASE</th>
<th>60Hz</th>
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<tr>
<td>NOMINAL OUTPUT VOLTAGE</td>
<td>INPUT VOLTAGE RANGE*</td>
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<tr>
<td>120</td>
<td>108-126</td>
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