Variable Transformers
Series 1500 • 9.5 to 15.0 Amperes
The 1510/1520 Series Variable Transformers are highly reliable, dependable and accurate AC control devices. The 1510, 120 volt unit is rated at 15 amperes for constant current loads; while the 1520, 240 volt unit is rated at 9.5 amperes for constant current loads. Constant impedance ratings are listed in the specifications. They can be operated at frequencies between 50 and 2000 hertz with derating at higher than rated frequency.

Uncased models have the shaft extending from the base end. This shaft is fully adjustable and can be extended from either end for general utility mounting. Cased styles are available in either “C” style (featuring protective screening over the coil assembly) or the “CT” style (which also includes a terminal box cover with knock-outs to accept conduit).

Motor driven units are available in single, two and three ganged assemblies; cased or uncased styles as identified by the prefix “M” in the type number. If a motor driven model is ordered, be sure to prefix the part number with the desired travel time from 0 to maximum of 5, 15, 30, or 60 seconds.

The synchronous motor is designed for operation on 120 volts, 50/60 hertz single phase lines and draws approximately 0.3 amperes.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>INPUT</th>
<th>OUTPUT</th>
<th>TERMINAL CONNECTIONS FOR VOLTAGE INCREASE</th>
<th>SHAFT ROTATION FOR VOLTAGE INCREASE</th>
<th>NET WEIGHT LBS. MAX.</th>
<th>SCHÉMATIC (Pg 8 &amp; 9)</th>
<th>NET WEIGHT LBS. MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NUMBER</td>
<td>INPUT</td>
<td>OUTPUT</td>
<td>SCHEDULED KVA</td>
<td>SCHEDULED KVA</td>
<td>MANUAL</td>
<td>MOTOR DRIVEN</td>
<td></td>
</tr>
<tr>
<td>MANUALY OPERATED</td>
<td>MOTOR DRIVEN</td>
<td>WIRING</td>
<td>VOLTS</td>
<td>HERTZ</td>
<td>INPUT</td>
<td>OUTPUT</td>
<td>TERMINAL CONNECTIONS FOR VOLTAGE INCREASE</td>
</tr>
<tr>
<td>1510-1510C-15CT</td>
<td>M1510-1510C-15CT+</td>
<td>Single Phase</td>
<td>240</td>
<td>50/60</td>
<td>0-240</td>
<td>15</td>
<td>6.22</td>
</tr>
</tbody>
</table>

++ Line to line voltage
† Unit is fused for the constant current rating at the factory.
§ Maximum KVA at maximum output voltage and corresponding derated output current. Maximum KVA for lower voltages may be calculated from derating curve Figure B, page 6.

If ganged units are used in a system that ordinarily has a common neutral or ground between source and load, the neutral or ground must be connected to the common terminals of the variable transformer assembly. If the system has no neutral, the load must be balanced or the transformers will be damaged.

# Maximum output current in output voltage range from 0 to 25% above line voltage. At higher output voltages, the output current must be reduced according to the derating curve, Figure B, page 6.
1500 Series

Manual Single, Uncased

120 Volt

For opposite rotation interchange external connections from 1 to 5 and 4 to 2.

240 Volt

For opposite rotation interchange external connections from 1 to 5, 4 to 2 and 7 to 6.

Manual Single, Cased

Motor-Driven Single, Two and Three-Ganged, Uncased

Motor-Driven Single, Two and Three-Ganged, Cased

3 Ganged