INSTRUCTIONS

Installation/Operation/Maintenance

Metered L2M Series

POWERSTAT®

Variable Autotransformers

with POWERKOTE® Coils

Superior Electric

INSPECTION

A POWERSTAT® Variable Transformer is a precision product packed with care. Examine it carefully for any shipping damage when unpacking. The “Damage and Shortage” instructions packed with the unit outline the procedures to follow if any parts are damaged or missing.

INSTALLATION

Although ideal for portable, benchtop or shelf use, L2M Series units can be wall mounted to any flat surface having a total thickness of 1/2-inch or less. Using the template overleaf, locate and drill the four No. 10 clearance holes. The four thread forming screws provided are then inserted through the panel from behind and driven into the holes on the back of the unit.

OPERATION

Connections and controls on L2M Series units are designed for easy operation.

1. Be sure the main power switch is in the “OFF” or “O” position.
2. Insert the input cord and plug assembly into a receptacle of the proper voltage and frequency.
3. Plug the load(s) into the receptacle and/or 5-WAY® Binding Posts provided on the front of the unit. ***Be certain the load or total of the loads does not exceed the current rating of the unit.***
4. Place the main power switch in the “ON” or “I” position. The brightly colored “ON” indicator of the power switch will become visible and the voltmeter reading will match the output knob position indicated by the front panel markings. Voltage increases with a clockwise turn of the knob. The voltage level can be monitored using the voltmeter provided on the front panel

   In may test applications, it is advisable to turn power on with the output knob set at the zero position. This permits monitoring of the load current by the front panel ammeter as voltage is increased to safeguard against potential shorts or miswiring in the load.

RATINGS

STEP-UP. Types L2M216C and L2M226C are wired to a lower input voltage tap that permits operation from a 120 VAC input source to obtain an output voltage of 0-280 V. Because of the increased copper loss in the voltage boost section of the winding, the output current must be reduced according to Figure A whenever the output exceeds 125% of the output voltage.

MAINTENANCE

Except for the possible replacement of a brush assembly, a POWERSTAT® Variable Transformer should not require servicing if the ratings of the unit are not exceeded.

Normally, brushes last for the life of the unit. They should be inspected periodically by removing the cover and replaced if badly worn. ***Use only the correct Superior Electric replacement brush assemblies listed because they contain special materials to attain proper operation.***

REPLACEMENT BRUSH ASSEMBLY

Type	L2M116C	L2M216C	L2M126C	L2M226C
Assembly	**RB116C**	**RB216c**	**RB126**	**RB226**

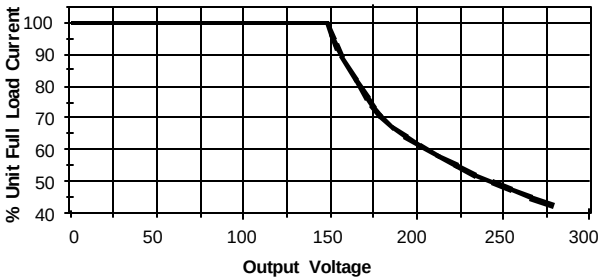

FIGURE A
Current Rating Beyond 150 V
Types L2M216C and L2M226C Only

	INPUT		**OUTPUT**				
				LOAD			
TYPE	**VOLTS**	**HERTZ**	**VOLTS**	**0-140 V MAX. AMP.**	**@280 V* MAX. AMP.**	**MAX. KVA**	**RECEPTACLE**
L2M116C	120	50/60	0-140	10	N/A	1.4	NEMA 5-15
L2M216C	120	50/60	0-280	3.5	1.5	0.49	NEMA 6-15
L2M126C	120	50/60	0-140	15	N/A	1.8	NEMA 5-15
L2M226C	120	50/60	0-280	7.5	3.1	1.05	NEMA 6-15

*See Figure A for current derating.

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