

Regavolt®

VARIABLE TRANSFORMER

1200 SERIES

INSTRUCTIONS

The 'REGAVOLT' 1200 series variable transformers are metric designs with metric fixing sizes and threads. The shaft is 16 mm dia. with the collet knob to suit, having a 5 mm hexagon socket in cap.

'REGAVOLT' transformers are supplied for 'surface' mounting as standard for the convenience of packing. They may be mounted either as supplied (surface) or 'back-of-panel' by a simple conversion carried out as follows:—

First, remove the knob by loosening the cap on the front. Now loosen the brush arm clamping screw. The 'REGAVOLT' shaft can now be pushed through to protrude the required distance on the mounting side of the transformer, bearing in mind that the shaft should never be under flush with the clamp. Re-tighten clamping screw securely. Mount the 'REGAVOLT' transformer to the panel using M8 screws, ensuring that the screws do not enter the base moulding more than 12 mm ($\frac{1}{2}$ ").

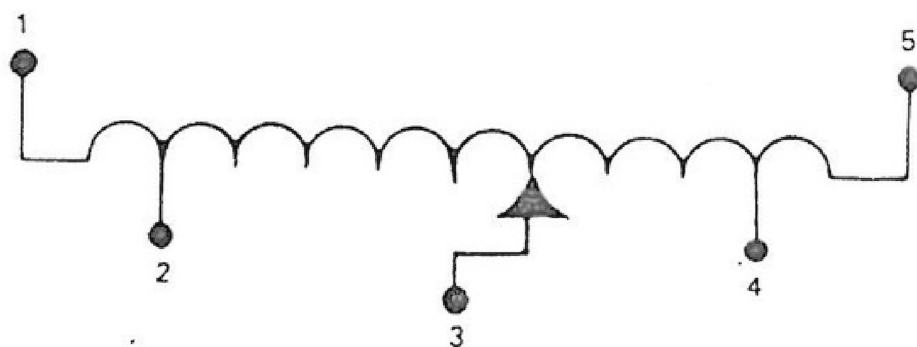
TERMINALS

Connections are made to M8 terminal screws on the terminal panel.

A terminal is provided to which the earth connection should be made.

CONNECTIONS

All standard models are connected as shown below, with the exception of 'H' (440V) models. These models are not provided with over-voltage taps



LINE VOLTAGE CONNECTION

To increase voltage with clockwise rotation of the knob with the Regavolt surface mounted connect the supply line and neutral to terminals 5 and 1, and the output line and neutral to terminals 3 and 1 respectively.

Ensure that neutral 1 is common to input and output.

For back-of-panel mounted models, connect the supply, line and neutral to terminals 1 and 5, and the output line and neutral to terminals 3 and 5 respectively.

Ensure that neutral 5 is common to input and output.

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OVER VOLTAGE CONNECTION

To increase voltage with the clockwise rotation of the knob with Regavolt surface mounted, connect the supply line and neutral to terminals 4 and 1, and the output line and neutral to terminals 3 and 1 respectively.

Ensure that neutral 1 is common to input and output.

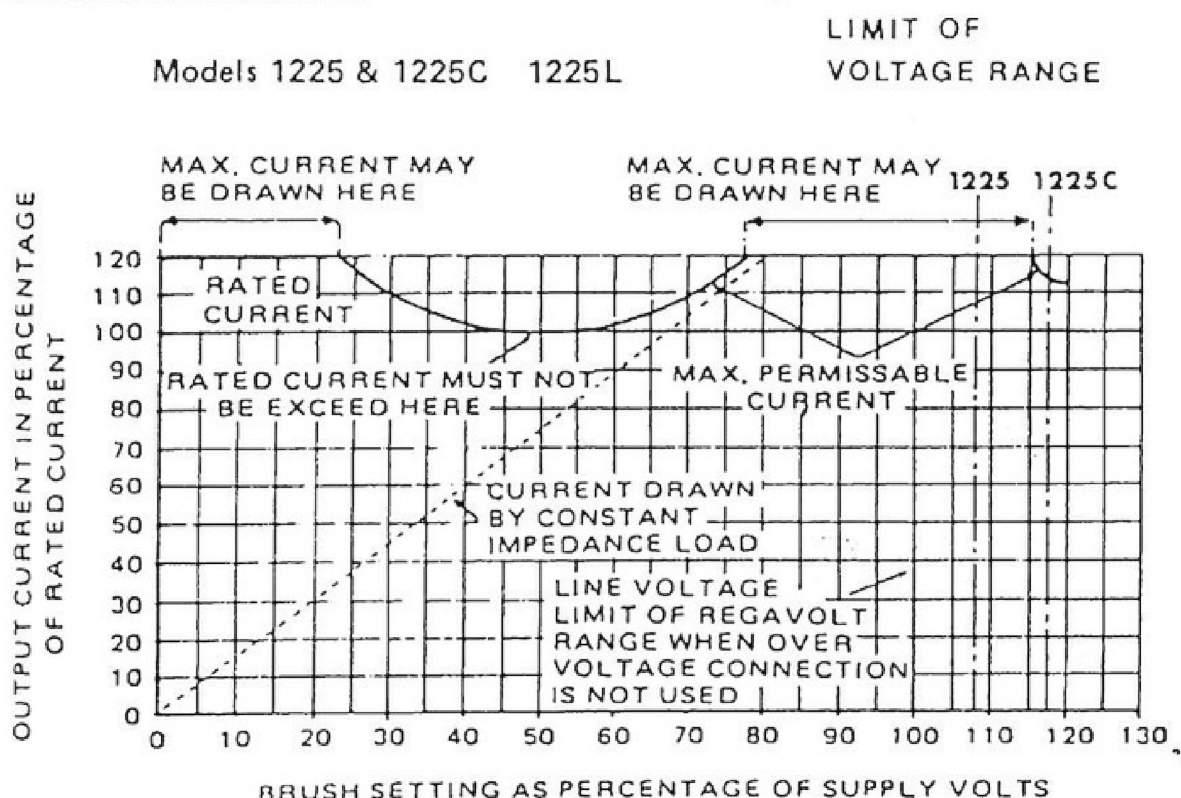
For back-of-panel mounted models, connect the supply line and neutrals to terminals 2 and 5, and the output line and neutral to terminals 3 and 5 respectively.

Ensure that neutral 5 is common to input and output.

NOTE:

'H' models are not fitted with an over voltage winding and must be connected as described under 'Line Voltage Connection'.

OUTPUT RATINGS AND CURVES



FUSES

It is strongly recommended that Regavolt transformers are protected by a fuse link in the output circuit.

DRIVING TORQUE

The torque for all standard models is 4 kg cm (60 oz ins) max.

REPLACEMENT BRUSHES

When ordering spare brushes there are three per set and the following part numbers should be quoted:—

MODEL	SET OF BRUSHES ONLY	COMPLETE BRUSH BOX ASSEMBLY
1225 & C	BR 627	SA 681
1225 L	BR 628	SA 682
1225 H	BR 629	SA 683

MAINTENANCE

With normal care and attention to the operating instructions, little maintenance is required.

The winding track should be kept clean from dust and dirt. As the track is plated, no abrasive must be used to clean it.

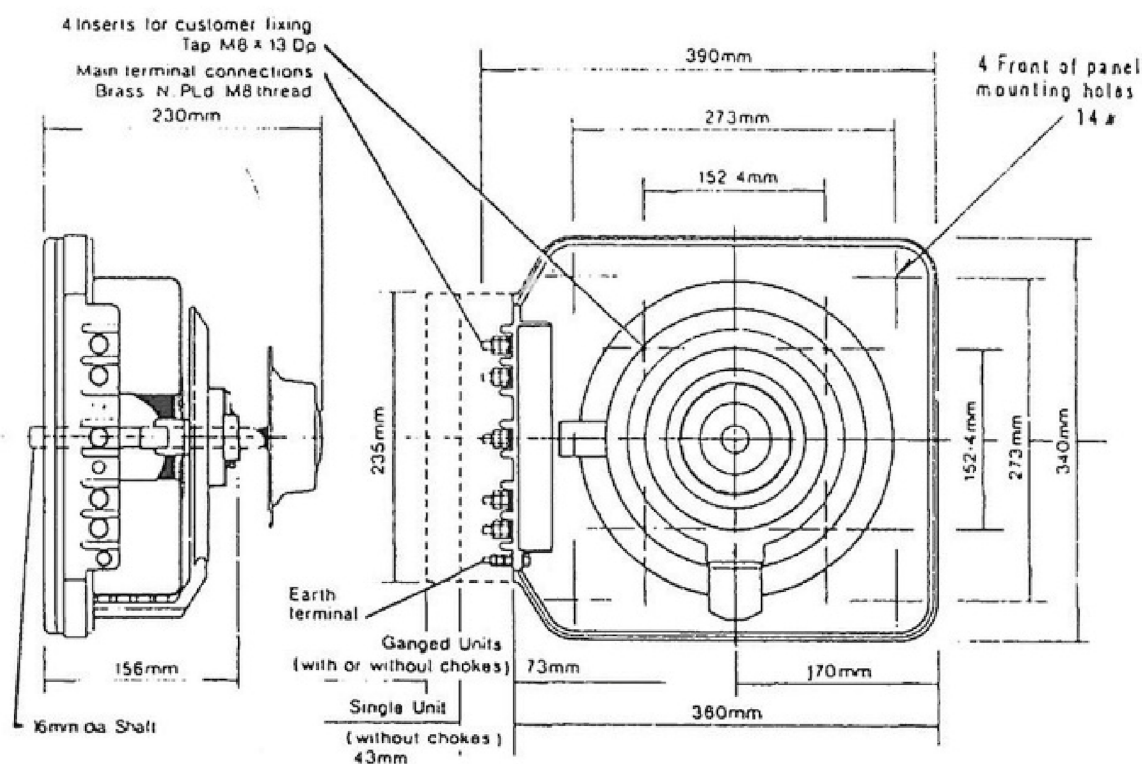
The brush should be replaced if the tip is badly chipped or when the depth of the thinned down section is reduced to 0.5 mm.

The brush pressure and highly finished track allows long brush life. When replacement eventually becomes necessary, this is done by the following:—

Slacken the M5 nut on top of the brush plate adjacent to brush box and withdraw complete box; the brushes can then be inspected and replaced if necessary. When replacing brush box ensure that the side of box is parallel with turns on winding.

Bed the brush in by inserting a piece of 3/0 grade abrasive paper between the brush and the track, abrasive side in contact with the brush. Keep the paper held firmly down on track and move the brush box backwards and forwards in about 12 mm sweeps. The brush will then conform to the surface of the track and give the best contact.

MOUNTING DETAILS



NOTE:

All Regavolt Spindles are earthed at the base of the unit and when mounting or motorising please ensure that the spindle is earthed at one end only, otherwise the spindle will act as a single turn current transformer and generate considerable heat.