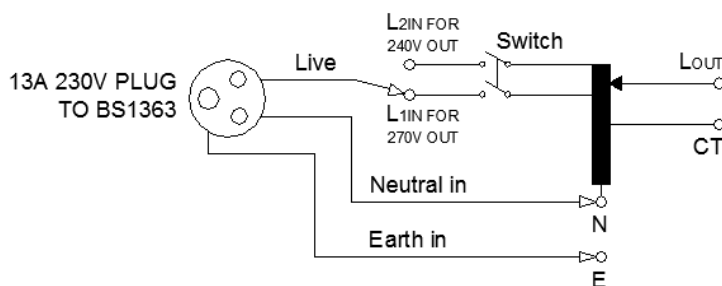


ENCLOSED SINGLE-PHASE VARIABLE AUTOTRANSFORMERS INSTALLATION AND SAFETY INSTRUCTIONS

Manufactured to BS EN 61558-2-10:2014

Models: MVT single phase enclosed range 1.1A to 9A

1. Read all of these instructions before you use the transformer.
2. This variable autotransformer **DOES NOT** provide mains isolation.
3. Variable autotransformers operate at mains voltages.
DO NOT EXCEED THE MAXIMUM VOLTAGE AND CURRENT RATINGS
4. Installation connection and maintenance should only be carried out by suitably qualified personnel.
5. The supplied input lead is fitted with a 13A UK plug. This can be changed to an alternate plug or hard-wired to an enclosed mains source. Ensure the polarity is maintained using the colour coded wires; brown = live, blue = neutral, yellow/green = earth.
6. An output lead can be connected to the stud terminals behind the terminal cover, ensure it is suitably glanded through the terminal cover to prevent damage to the sleeve. The lead should then be hard wired inside the equipment to be operated or a suitable socket. Alternative small outlet sockets, such as 4mm test sockets, can be fitted.
7. The terminal marked "N" is a common neutral for both the supply input and the load output.
8. The load must always be connected across the output, "N" and "L_{OUT}" terminals, **NEVER** connect the load in series with the transformer.
9. The centre tap "CT" terminal is for operation in a buck-boost configuration, not 110 - 120V supply applications.
For buck-boost wiring instructions see <http://carroll-meynell.com/technical-buckboost>
10. Carbon brushes should be inspected for damage and wear periodically, especially after an overcurrent event. A faulty and worn brush **will** result in damage to the transformer winding.
11. These units are Class 1 insulated and must not be tested on Portable Appliance Testers (PAT) as Class 2 double insulated products. Flash test only at 2.0kV. Flash test only between Earth and Live.
DO NOT flash test between input and output.
12. The variac can be wired for two types of output configuration,
Output 0 – 112% of input voltage typically used in testing applications where the over-voltage to maximum mains tolerance is required,
Output 0 – 100% of input voltage typically used in control applications where the voltage needs to be varied without over-volting the equipment.
These conditions are achieved by connecting the supply live line to either L_{1IN} or L_{2IN}



Input "L_{2IN}" and "N" Output 0 – 100% of input
Input "L_{1IN}" and "N" Output 0 – 112% of input
Input/output Neutral "N"
Wiper arm contact, "L_{OUT}"
Centre tap "CT" is for buck-boost applications.



EC DECLARATION OF CONFORMITY **CE**

Carroll & Meynell declare its sole responsibility for model: MVT single phase enclosed range 1.1A to 9A meets the basic safety requirements of European directives

1. Low Voltage Directive – 2014/35/EU
2. REACH – Regulation (EC) No 1907/2006
3. RoHS – Restriction of Hazardous Substances – Directive – 2011/65/EU
4. Waste Electrical and Electronic Equipment Directive – 2012/19/EU

and any amendments.

The conformity assessment is based on the following harmonised standards

BS EN 61558-2-10:2014

Country of Origin - United Kingdom

Name: Karen Shovelin

Title: Quality health & Safety Manager

Signature: *Karen Shovelin*

Date:

On behalf of CARROLL & MEYNELL Transformers Limited

CE