

**SINGLE AND THREE PHASE
AUTOTRANSFORMERS
SAFETY INSTRUCTIONS
(ENCLOSED STYLE)**

Manufactured to BS7452 / IEC60989



1. Read all of these instructions before you use the transformer
2. These transformers are **NOT** designed to provide mains isolation
3. Check the transformer, enclosure and any fitted accessories (plugs, sockets etc) for signs of damage before use. Do not use if any damage is discovered
4. Check the transformer rating against the power usage of the load you are going to supply. Take particular care when supplying motors or discharge lighting systems where the KVA required is greater than the KW load specification
5. These transformers are fully rated for continuous operation at their maximum listed power capability. They may be used at higher ratings for a duty cycle provided the RMS power usage does not exceed the transformer rating.
6. During normal operation these units will become hot. Ensure the transformer will not damage any floor covering it is standing on or cause overheating of components in its vicinity. Ensure there is adequate space around the enclosure for ventilation to prevent overheating of the unit during normal operation.
7. Ensure proper protection against the occurrence of fault currents exists in the supply to the unit
8. **WARNING** Before commencing any work on the transformer ensure the mains supply to the unit has been isolated
9. Ensure connecting leads are suitably rated for both the voltages and currents of the input and output
10. Follow the wiring colour code schemes appropriate for the installation.
11. For three phase units ensure correct wiring sequences for the input and output are followed
12. Ensure both the input and output earth leads are connected to the transformer earth terminal for complete safety
13. Ensure all terminal connections to the transformer are properly secured before switching on the supply
14. Replace all finger guards as supplied with the unit after wiring
15. Replace the enclosure lid, gland plates, sealing gaskets and any other covers, securing in place with the fixings supplied to prevent physical contact with live electrical parts. The transformers will have mains or higher voltages present which could prove lethal on contact.
16. Transformers have an inherent high in-rush current at switch on. Ensure all fuses, MCB's and MCCB's used in the protection of the supply lines to the transformer are of types suitable to withstand these surge currents. E.g. Motor rated fuses, Type "C" or "D" curve MCB's.
17. Many transformers exceed the weight limits for safe movement when carrying by hand, ensure that lifting equipment capable of carrying the units is used at all times. When fitted use the lifting eyebolts supplied with the product for carrying. Note in many cases such lifting eyebolts are on the transformer inside the enclosure. In such cases the lid should be removed and lifting performed using the transformer eyebolts, **DO NOT** attempt to attach eyebolts to any of the enclosure fixing points to perform a lift
18. Ensure that the wiring and installation is carried out by suitably qualified personnel
19. At the end of the service life of the unit arrange for disposal in accordance with the environmental legislation current at the time for the recovery and recycling of materials