

**SITE TRANSFORMERS
SAFETY INSTRUCTIONS**
Manufactured to BSEN 61558



1. Read all of these instructions before you use the transformer
2. These transformers are designed to provide mains isolation and reduce the main voltage to a lower, safer value
3. Check the transformer and case 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 equipment you are going to use
5. These transformers are rated for continuous operation at their maximum listed power
6. These units are fitted with a primary MCB protection device to protect against overload and short circuit of the transformer. They also have MCB output protection devices to protect against overload and short circuit of specific output sockets
7. In the event of a short circuit to the output remove the cause of the fault before resetting the MCB's
8. In the event of an overload trip allow the unit to cool for at least 15 minutes before resetting the MCB's
9. The units may be wired to an electrical junction box or fitted with an input plug. Ensure suitably rated plugs and cables are selected. The earth on the input must always be connected for complete safety to the output
10. A) For three phase 10KVA units (400V) the minimum conductor size should be 2.5mm²
B) For single phase 10KVA units (230V) the minimum conductor size should be 6mm²
C) For single phase 5KVA units (230V) the minimum conductor size should be 4mm²
11. The output of the single phase transformers have a centre tap that has been connected to the incoming earth lead, The output of the three phase transformers have a star connected neutral that has been connected to the incoming earth lead
12. 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 1.5KV between input and earth **DO NOT** flash test between output to earth or between phases of a three phase unit
13. Transformers have an inherent high in-rush current at switch on. In the event of a supply fuse blowing check that the replacement is a suitably rated anti-surge type. Miniature Circuit Breakers (MCB's) protecting sockets should have a type C or D tripping characteristic. Fuses and circuit breakers in supply distribution board should have ratings in excess of those providing primary protection to the transformers
14. These units are protected against the ingress of solid and liquid contaminants to IP23.

Fan cooled unit

Model CMS10K/16 has cooling fans to control the temperature of the transformer during operation. As the temperature of the unit rises above a set level the fans will start to operate. Separate wiring for the fans is not required

Connection to the units should follow the current wiring colour convention

Three Phase	Line 1	Brown Wire	Single Phase	Live	Brown Wire
	Line 2	Grey Wire		Neutral	Blue Wire
	Line 3	Black Wire		Earth	Green / Yellow Wire
	Neutral	Blue Wire			
	Earth	Green / Yellow Wire			

Care should be taken when connecting to mains systems with old style Red, Yellow, Blue, Black line wiring colours not to connect the Line 3 to the old Black Neutral or the Blue Neutral to the old Blue phase line wire

Ensure that such wiring is carried out by suitably qualified personnel