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SITE TRANSFORMERS SAFETY INSTRUCTIONS

Manufactured to BSEN 61558

CM10K1AF/420/SB

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. For single phase 10kVA units (230V) the minimum input conductor size should be 6mm²
11. The output of the single phase transformers have a centre tap that has been connected to the incoming earth conductor, The output of the three phase transformers have a star connected neutral that has been connected to the incoming earth conductor
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 CM10K1AF/420/SB (CM10K16) 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

Single Phase	Live	Brown 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

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EC DECLARATION OF CONFORMITY CE

Carroll & Meynell declare its sole responsibility for model: CM10K1AF/420/SB 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

Country of Origin - United Kingdom

Name: Karen Shovelin

Title: Quality health & Safety Manager

Signature: *Karen Shovelin*

Date: 15/08/2019

On behalf of CARROLL & MEYNELL Transformers Limited

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