

**TYPE “n”
ANTI-CONDENSATION HEATERS
FOR ELECTRIC MOTORS & GENERATORS**

**TYPE
ACH/n**
DATA SHEET 05/02

Component Approval No. Ex 94Y4457U:

Motors and generators that comply with BS 5000: Part 1b 1985 + Amendment 1 to 4.

Component Approval No. Ex 98Y4345U:

Motors and generators that comply with EN 50021: 1998.

SCHEDULE OF LIMITATIONS

1. To achieve temperature class T3 without the need for testing:
 - i) The heater element shall be closely bound to the motor end winding prior to impregnation with a suitable impregnating substance by dipping, trickling or vacuum impregnation. Coating by painting or spraying is not recognized as impregnation.

The impregnation shall be carried out in compliance with the special instructions of the manufacturer of the relevant type of impregnating substance and in such a way that the space between the heater and winding are filled as completely as possible.

If impregnating substances containing solvents are used, the impregnation and drying processes shall be carried out at least twice.
 - ii) The motor winding shall be of the “round wire “ type with no insulation between the motor winding and the heater other than the integral varnish insulation of the wire.
 - iii) When more than one heater is fitted to an end winding, or when the length of the heater is greater than the circumference of the end winding, adjacent turns shall have a radial clearance of **at least 5mm**.
 - iv) The maximum rated supply voltages are, 110 volts for ACH/n/a and 240 volts for ACH/n/b. They are designed for motors with maximum winding temperatures of 140 °C measured by change of resistance (equivalent to 100 °C temperature rise in 40 °C ambient).

2. The heater shall be connected to earth while the motor winding is high voltage tested.

The heater shall be high-voltage tested to earth at 2000V r.m.s. for 1 minute.

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