


Requests for Burn-in test duration change

22/11/2022


Objective: reduction of the Burn-in test duration (paragraph 8.4 of ESCC 4009) for energy saving

Justification: the global increase in the cost of energy has prompted the company to try to reduce energy needs. Since over the years no anomalies have been found in our products during the burn-in test, we would like to propose the reduction of the test period as proposed below. We consider 120 hours to be a significant and sufficient test time.



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8.4 BURN-IN
Burn-in shall be performed in accordance with IEC Publication No. 60115-1, Clause 4.25 with the following details:

- Mounting:
The heaters shall be suspended and connected by their terminal leads in still air. Heaters shall be positioned such that one heater does not unduly influence the temperature of any other.
- Test Conditions:
As specified in Burn-in in the Detail Specification.
The duration of the burn-in shall be 168 (+24 -0) hours. 
Each layer of double layer heaters shall be tested successively for 84 hours.
Resistors of multiple resistor single layer heaters shall be tested simultaneously.
The voltage (dc or full-wave rectified ac with ripple less than 5%) shall be increased until either rated power density or the maximum rated operating temperature, both as specified in the Detail Specification, are reached.
The voltage shall be in cycles of 1.5 hours "ON" and 0.5 hours "OFF" (the "OFF" cycles are included in the test duration).
- Data Points:
On completion of testing the heaters shall be subjected to standard atmospheric conditions for recovery until thermal equilibrium is reached, up to a maximum of 2 hours, prior to electrical measurements. Resistance shall be measured as specified in Room Temperature Electrical Measurements in the Detail Specification.

120 (+48 ; -0) hours
+48h in case of start of the test on Monday morning and foreseen end on Saturday morning, without operator available to stop the test

Thanks!

Growing Together !

