

IS 1709 : 1984
SPECIFICATION FOR CAPACITORS FOR ELECTRIC FAN MOTORS

This Indian Standard covers the requirements and methods of tests for self healing and non-self healing types of fixed capacitors used in single phase ac electric fan motors.

The capacitors covered under this standard are suitable for rated voltage 400V, rated frequency and working at full load under ambient air temperature up to 70°C,

The standard also recommends dimensions of cylindrical capacitors for electric fan motors with preferred values of capacitances 1.50, 2.00, 2.25, 2.50, 3.00, 3.50, 4.00, 5.00, 6.00, 8.00 and 10.00 μF and tolerance within ± 5 percent of stated value.

The standard specifies both safety and performance tests along with visual examination and capacitance measurement, the capacitors complying with this standard undergo Voltage tests, Test for tangent of loss angle, Test for robustness of termination, Test for flexibility of lead terminations, Test for flexibility of soldering tags, Test for screw terminals, Soldering test, Sealing test and Self-healing test.

Together, these tests under IS 1709 ensure that capacitors in electric fan motors are safe, efficient, durable, and capable of withstanding various operational and environmental stresses. This results in better performance, reduced risk of failure, and improved fan performance and consumer safety.