

IS 996 : 2009 - Single phase a.c. induction motors for general purpose

Single-phase AC induction motors are widely used in everyday applications, providing effective and efficient solutions for a variety of needs. Their reliability, cost-effectiveness, and simplicity make them a preferred choice in many residential and light commercial applications.

Indian Standard 996 covers single-phase AC induction motors for general purpose, encompassing capacitor-start, capacitor-start-capacitor-run, shaded pole, and split-phase types. It specifies requirements and tests for motors with voltage ratings up to and including 250V and output up to and including 2200W, featuring insulation classes B, F, and H.

Technical requirements cover mounting types, enclosure types, cooling methods, torques (breakaway, pull-up, pull-out), temperature rise limits, performance values (full-load speed, current, efficiency, power factor), insulation resistance, high-voltage withstand, moisture proofness, leakage current, winding resistance measurement, noise level, and over-speed test. The standard also specifies marking and connection diagrams, test procedures (type, routine, and acceptance), and guidelines for selecting fan duty motors.