

IS 2993(Part 1):2024
a.c. Motor Capacitors
Part 1 General — Performance, Testing
and Rating — Safety Requirements —
Guidance for Installation and Operation

Deals with motor capacitors intended for connection to windings of asynchronous motors supplied from a single-phase system having a frequency up to and including 100 Hz and to capacitors to be connected to three-phase asynchronous motors so that these motors may be supplied from a single-phase system.

This standard covers impregnated or unimpregnated capacitors having a dielectric of paper, plastic film, or a combination of both, either metallized or with metal-foil electrodes, with rated voltages up to and including 660 V.

The object of this standard is

- a) to formulate uniform rules regarding performance, testing and rating;
- b) to formulate specific safety rules;
- c) to provide a guidance for installation and operation.

Most capacitor motors, and consequently the capacitors also, are switched on and off frequently. In switching tests, it has been found that high transients often occur at the terminals of both the running and starting capacitors. To withstand these transients, care should be exercised to ensure that the manufacturer's declared ratings are not exceeded.