

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**AC motor capacitors –
Part 2: Motor start capacitors**

**Condensateurs des moteurs à courant alternatif –
Partie 2: Condensateurs de démarrage de moteurs**





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AC MOTOR CAPACITORS –

Part 2: Motor start capacitors

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International Standard IEC 60252-2 has been prepared by IEC technical committee 33: Power capacitors and their applications.

This second edition cancels and replaces the first edition of IEC 60252-2, published in 2003, and constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- definition of segmented film capacitors;
- clearer definition of the purpose of d.c. conditioning in destruction test.

The text of this standard is based on the following documents:

FDIS	Report on voting
33/476/FDIS	33/480/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 60252 series, published under the general title *AC motor capacitors*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

AC MOTOR CAPACITORS –

Part 2: Motor start capacitors

1 Scope

This part of IEC 60252 applies to motor start capacitors intended for connection to windings of asynchronous motors supplied from a single-phase system having the frequency of the mains.

This standard covers impregnated or unimpregnated metallized motor start capacitors having a dielectric of paper or plastic film, or a combination of both and electrolytic motor start capacitors with non-solid electrolyte, with rated voltages up to and including 660 V.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60062, *Marking codes for resistors and capacitors*

IEC 60068-2 (all parts), *Environmental testing – Part 2: Tests*

IEC 60068-2-6, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-14, *Environmental testing – Part 2-14: Tests – Test N: Change of temperature*

IEC 60068-2-20, *Environmental testing – Part 2-20: Tests – Test T: Soldering*

IEC 60068-2-21, *Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60068-2-78:2001, *Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state*

IEC 60112, *Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions*

IEC 60309-1:1999, *Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60695-2-10:2000, *Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure*

IEC 60695-2-11:2000, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products*

ISO 4046, *Paper, board, pulps and related terms – Vocabulary*