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Irish Standard I.S. EN 60252-2:2011

AC motor capacitors -- Part 2: Motor start capacitors (IEC 60252-2:2010 (EQV))

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EUROPEAN STANDARD

EN 60252-2/A1

NORME EUROPÉENNE EUROPÄISCHE NORM

November 2013

ICS 31.060.30; 31.060.70

English version

AC motor capacitors -Part 2: Motor start capacitors (IEC 60252-2:2010/A1:2013)

Condensateurs des moteurs à courant alternatif -Partie 2: Condensateurs de démarrage de moteurs (CEI 60252-2:2010/A1:2013) Wechselspannungsmotorkondensatoren -Teil 2: Motoranlaufkondensatoren (IEC 60252-2:2010/A1:2013)

This amendment A1 modifies the European Standard EN 60252-2:2011; it was approved by CENELEC on 2013-10-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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Ref. No. EN 60252-2:2011/A1:2013 E

EN 60252-2:2011/A1:2013

- 2 -

Foreword

The text of document 33/533/FDIS, future IEC 60252-2:2010/A1, prepared by IEC/TC 33, "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60252-2:2011/A1:2013.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-07-03
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2016-10-03

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60252-2:2010/A1:2013 was approved by CENELEC as a European Standard without any modification.

EUROPEAN STANDARD

EN 60252-2

NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

AC motor capacitors -Part 2: Motor start capacitors (IEC 60252-2:2010)

Condensateurs des moteurs à courant alternatif -Partie 2: Condensateurs de démarrage de moteurs (CEI 60252-2:2010) Wechselspannungsmotorkondensatoren -Teil 2: Motoranlaufkondensatoren (IEC 60252-2:2010)

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EN 60252-2:2011

- 2 -

Foreword

The text of document 33/476/FDIS, future edition 2 of IEC 60252-2, prepared by IEC TC 33, Power capacitors, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60252-2 on 2011-01-19.

This European Standard supersedes EN 60252-2:2003.

The main changes with respect to EN 60252-2:2003 are listed below:

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

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

-	latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2011-10-19
-	latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-01-19

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60252-2:2010 was approved by CENELEC as a European Standard without any modification.

- 3 -

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	<u>Year</u>
IEC 60062	-	Marking codes for resistors and capacitors	EN 60062	-
IEC 60068-2	Series	Environmental testing - Part 2: Tests	EN 60068-2	Series
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	-
IEC 60068-2-20	-	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	EN 60068-2-20	-
IEC 60068-2-21	-	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN 60068-2-21	-
IEC 60068-2-78	2001	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	2001
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-
IEC 60309-1	1999	Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements	EN 60309-1	1999
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	EN 60695-2-10	2001
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	EN 60695-2-11	2001

EN 60252-2:2011

- 4 -

Publication	Year	Title	EN/HD	Year
ISO 4046	-	Paper, board, pulp and related terms -	_	-
		Vocabulary		

- 2 -

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CONTENTS

FO	REWC	RD		4
1	Scop	e		6
2	Norm	ative ref	ferences	6
3	Term	s and de	efinitions	7
4			itions	
Т	4.1		service conditions	
	4.1		ed tolerances on capacitance	
5				
5		-	motor start capacitors	
	5.1	-	requirements and tests	
		5.1.1	Test requirements	
		5.1.2	Nature of tests	
		5.1.3	Type tests	
		5.1.4	Routine tests	
		5.1.5	Tangent of the loss-angle measurement	
		5.1.6	Visual examination	
		5.1.7	Voltage test between the terminals	
		5.1.8	Voltage test between terminals and case	
		5.1.9	Capacitance measurement	
			Check of dimensions	
			Mechanical tests	
			Sealing test	
			Endurance test	
			Damp heat test	
			Self-healing test	
			Destruction test	
		5.1.17	Resistance to heat, fire and tracking	22
	5.2	Overloa	ads	
		5.2.1	Maximum permissible voltage	
		5.2.2	Maximum permissible current	23
		5.2.3	Maximum permissible reactive output	23
	5.3	Safety	requirements	23
		5.3.1	Creepage distances and clearances	23
		5.3.2	Terminals and connecting cables	24
		5.3.3	Earth connections	24
		5.3.4	Discharge devices	25
		5.3.5	Pollution	25
	5.4	Marking	g	25
6	Electi	rolytic m	notor start capacitors	26
	6.1	Quality	requirements and tests	26
		6.1.1	Test requirements	26
		6.1.2	Nature of tests	26
		6.1.3	Type tests	27
		6.1.4	Routine tests	
		6.1.5	Visual examination	29
		6.1.6	Voltage test between the terminals	29
			Voltage test between terminals and case	

60252-2 © IEC:2010

- 3 -

		6.1.8	Capacitance and power factor measurement	
		6.1.9	Check of dimensions	
			Mechanical tests	
			Sealing test	
			Endurance test	
			Damp heat test	
			Pressure relief test	
			Resistance to heat, fire and tracking	
	6.2			
		6.2.1	Maximum permissible voltage	
		6.2.2	Maximum permissible current	
		6.2.3	Maximum permissible reactive output	
	6.3	-	requirements	
		6.3.1	Creepage distances and clearances	
		6.3.2	Terminals and connecting cables	
		6.3.3	Earth connections	
		6.3.4	Discharge devices	
	.	6.3.5	Pollution	
-	6.4		g	
7			installation and operation	
	7.1		l	
	7.2		of rated voltage	
		7.2.1	Measurement of working voltage	
		7.2.2	Influence of capacitance	
	7.3		ng capacitor temperature	
		7.3.1	Choice of maximum permissible capacitor operating temperature	
		7.3.2	Choice of minimum permissible capacitor operating temperature	
	7.4		ng transients	
A	7.5	-	e of electrolytic capacitors	
Anı	nex A	(normati	ive) Test voltage	
Fia	ure 1 -	- Test a	pparatus for d.c. conditioning	20
-			pparatus for a.c. destruction test	
			gement to produce the variable inductor <i>L</i> in Figure 2	
Fig	ure 4 -	- Test c	ircuit for measurement of capacitance and power factor	30
Tal	ole 1 –	Type te	est schedule	12
			ltages	
		-		
			m creepage distances and clearances	
			est schedule	
Tat	ole 6 –	Test vo	ltages	29
Tał	ole 7 –	Torque		32
Tal	ole 8 –	Minimu	m creepage distances and clearances	38

- 4 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

AC MOTOR CAPACITORS -

Part 2: Motor start capacitors

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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.

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- 5 -

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.

- 6 -

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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



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