SLOVENSKI STANDARD
SIST EN 60062:2016/A1:2019

01-december-2019

Označevalne kode za upore in kondenzatorje - Dopolnilo A1 (IEC 60062:2016/A1:2019)

Marking codes for resistors and capacitors (IEC 60062:2016/A1:2019)

Kennzeichnung von Widerständen und Kondensatoren (IEC 60062:2016/A1:2019)

Codes de marquage des résistances et des condensateurs (IEC 60062:2016/A1:2019)

Ta slovenski standard je istoveten z: **EN 60062:2016/A1:2019**

ICS:

31.040.01	Upori splošno	Resistors in general
31.060.01	Kondenzatorji na splošno	Capacitors in general

SIST EN 60062:2016/A1:2019 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60062:2016/A1

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English Version

Marking codes for resistors and capacitors (IEC 60062:2016/A1:2019)

Codes de marquage des résistances et des condensateurs (IEC 60062:2016/A1:2019)

Kennzeichnung von Widerständen und Kondensatoren (IEC 60062:2016/A1:2019)

This amendment A1 modifies the European Standard EN 60062:2016; it was approved by CENELEC on 2019-09-24. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 40/2622/CDV, future IEC 60062/A1, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60062:2016/A1:2019.

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) 2020-06-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-09-24

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

Endorsement notice

The text of the International Standard IEC 60062:2016/A1:2019 was approved by CENELEC as a European Standard without any modification.

IEC 60062

Edition 6.0 2019-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Marking codes for resistors and capacitors

Codes de marquage des résistances et des condensateurs

INTERNATIONAL
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COMMISSION

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FOREWORD

This amendment has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

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

CDV	Report on voting
40/2622/CDV	40/2661/RVC

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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.

Contents

Add the following:

Annex B (informative) Special two-character code system for capacitors

Foreword

Add, as the 7th bullet, to the sentence "This edition includes the following significant technical changes with respect to the previous edition":

- introduction of Annex B, Special two-character code system for capacitors.

4.1 General rules

Add, after the last paragraph, the following new Note:

NOTE In addition to these general coding methods, special codes with reduced length have been established in the market:

– a special three-character code system for resistors, see Annex A;

– a special two-character code system for capacitors, see Annex B.

Add, after Annex A and before Annex X, the following new Annex B.

Annex B
(informative)

Special two-character code system for capacitors

A special two-character code system exists for the marking of capacitance values with two significant numbers with only two characters in total.

This code system is particularly suited for situations where the marking of capacitance values of the E6, E12 or E24 series is desired, but the surface area available for marking does not permit the printing of three or more characters in a sufficiently readable size, as it is required to mark the capacitor with a regular three-character code as given in 4.3.2 of this document, plus, possibly, other required codes.

The special two-character code is composed of:

– a code letter for the significant numbers of the capacitance value, as given in Table B.1, directly succeeded by

– a code number for the multiplier, as given in Table B.2,

without any space in between.

Table B.1 – Coding of the significant numbers of the E24 series

Significant numbers	Code letter	Significant numbers	Code letter	Significant numbers	Code letter
1,0	A	2,2	J	4,7	S
1,1	B	2,4	K	5,1	T
1,2	C	2,7	L	5,6	U
1,3	D	3,0	M	6,2	V
1,5	E	3,3	N	6,8	W
1,6	F	3,6	P	7,5	X
1,8	G	3,9	Q	8,2	Y
2,0	H	4,3	R	9,1	Z

NOTE 1 The coding is case sensitive, hence the code letters are to be used as upper-case characters.

NOTE 2 The significant numbers in this table are given with a decimal between the first and the second digit, which is different from the way the significant numbers of the E24 series are presented in IEC 60063, and hence results in a different interpretation of the attached multipliers.

Table B.2 – Coding of the multiplier

Multiplier	Code number
0,1 pF	9
1 pF	0
10 pF	1
100 pF	2
1 nF	3
10 nF	4
100 nF	5
1 µF	6
10 µF	7
100 µF	8
NOTE The originally assigned multipliers where only numeric values, 10^{-1} through 10^{8}, which lacked the presumed unit of pF, which is required to deliver an unambiguous result.	

EXAMPLE

L4 represents 27 nF

where L is the code letter for the significant number 2,7 of the capacitance value, and

4 is the code number for the multiplier 10 000 pF = 10 nF.

NOTE 1 This special coding method has been described e.g. in ANSI/EIA 198-1 for ceramic dielectric capacitors.

It has been employed by a variety of manufacturers of SMD multilayer capacitors, and also been adopted by manufacturers of other capacitors, e.g. small film capacitors.

The EIA description contained a few more assignments of special non E-series values to lower case characters, in addition to the assignments for E24 values given in Table B.1:

2,5	a
3,5	b
4,0	d
4,5	e
5,0	f
6,0	m
7,0	n
8,0	t
9,0	g