SLOVENSKI STANDARD

SIST EN 60249-2-9:1997/A4:2002

prva izdaja
maj 2002

Amendment to subclauses 5.8 and 5.9 of EN

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ICS 13.220.40; 31.180

Referenčna številka
SIST EN 60249-2-9:1997/A4:2002(en)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60249-2-9/A4

October 1995

23-11-1995

UDC 621.3.049.75-035.4
ICS 31.180

Descriptors: Printed circuit, composite materials, paper, glass, copper, flammability

English version

Base materials for printed circuits
Part 2: Specifications
Specification No. 9: Epoxide cellulose paper core, epoxide glass cloth surfaces copper-clad laminated sheet of defined flammability (vertical burning test)
(IEC 249-2-9:1987/A4:1994)

Matériaux de base pour circuits imprimés
Partie 2: Spécifications
Spécification n° 9: Feuille de stratifié recouverte de cuivre avec couches centrales en papier cellulose époxyde et couches superficielles en tissu de verre époxyde, d'inflammabilité définie (essai de combustion verticale)
(CEI 249-2-9:1987/A4:1994)

Basismaterialien für gedruckte Schaltungen
Teil 2: Einzelbestimmungen
Einzelbestimmung Nr. 9: Kupferkaschierte Schichtpreßstofftafeln mit Epoxidharz-Papierkern und Epoxidharz-Glasgewebedecklagen definierter Brennbarkeit (Brennprüfung mit vertikaler Probenlage)
(IEC 249-2-9:1987/A4:1994)

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This amendment A4 modifies the European Standard EN 60249-2-9:1994; it was approved by CENELEC on 1995-09-20. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of amendment 4:1994 to the International Standard IEC 249-2-9:1987, prepared by IEC TC 52, Printed circuits, was submitted to the formal vote and was approved by CENELEC as amendment A4 to EN 60249-2-9:1994 on 1995-09-20 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

Endorsement notice

The text of amendment 4:1994 to the International Standard IEC 249-2-9:1987 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME INTERNATIONALE
INTERNATIONAL STANDARD

CEI
IEC
249-2-2,
1985
249-2-4, -5, -9, -10
1987
249-2-14
1988

AMENDEMENT 4
AMENDMENT 4

1994-05

Amendement 4

Matériaux de base pour circuits imprimés

Deuxième partie:
Spécifications. Spécifications n°s 2, 4, 5, 9, 10 et 14

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Amendment 4

SIST EN 60249-2-9:1997/A4:2002
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Base materials for printed circuits

Part 2:
Specifications. Specifications Nos. 2, 4, 5, 9, 10 and 14

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FOREWORD

This amendment has been prepared by IEC technical committee 52: Printed circuits.

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

DIS	Report on voting
52(CO)396	52(CO)397

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

This amendment is applicable to the standards listed in the table below (first column). The relevant amendment number to each standard which this amendment modifies is also given in the table (second column).

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SIST EN 60249-2-9:1997/A4:2002
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IEC standard No.	Amendment No.
249-2-1	3
249-2-2	4
249-2-3	3
249-2-4	4
249-2-5	4
249-2-6	3
249-2-7	3
249-2-9	4
249-2-10	4
249-2-11	3
249-2-12	3
249-2-14	4
249-2-16	2
249-2-17	2
249-2-18	2
249-2-19	2

In publications IEC 249-2-2, IEC 249-2-4, IEC 249-2-5, IEC 249-2-9, IEC 249-2-10 and IEC 249-2-14, replace the existing subclause 5.8 "Size tolerances" and subclause 5.9 "Rectangularity of cut panels" by the following:

5.8 *Sheet sizes*

5.8.1 *Typical sheet sizes*

Typical sheet sizes are:

1 060 mm × 1 150 mm
915 mm × 1 220 mm
1 000 mm × 1 000 mm
1 000 mm × 1 200 mm.

Apart from these typical sheet sizes, fractions of the sizes and other sizes, for example larger, are available on the market.

5.8.2 *Tolerances for sheet sizes*

The size of the sheets delivered by the supplier shall not deviate more than $^{+20}_{0}$ mm from the ordered size.

5.9 *Cut panels*

5.9.1 *Cut panel sizes*

Cut panel sizes shall be, when delivered, in accordance with the purchaser's specification.

5.9.2 *Size tolerances for cut panels*

For panels cut to size according to the purchaser's specification, the following tolerances for length and width shall apply:

Panel size (mm)	Tolerance ± (mm)	
	Normal	Close
Up to 300		0,5
Over 300 to 600	2	0,8
Over 600		1,6

NOTE – The specified tolerances include all deviations caused by cutting the panels.

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5.9.3 *Rectangularity of cut panels*

Property	Test method (subclause of IEC 249-1)	Requirements	
		Coarse (mm/m)	Normal (mm/m)
Rectangularity of cut panels	3.15	3	2