



SLOVENSKI STANDARD

SIST EN 61747-3:2002

01-september-2002

Liquid crystal and solid-state display devices - Part 3: Sectional specification for liquid crystal display (LCD) cells (IEC 61747-3:1998)

Liquid crystal and solid state display devices -- Part 3: Sectional specification for liquid crystal display (LCD) cells

Flüssigkristall- und Halbleiter-Anzeige-Bauelemente -- Teil 3: Rahmenspezifikation für Flüssigkristall-Anzeigezellen (LCD-Zellen)

Dispositifs d'affichage à cristaux liquides et à semiconducteurs -- Partie 3: Spécification intermédiaire pour les cellules pour dispositifs d'affichage à cristaux liquides

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Ta slovenski standard je istoveten z: **EN 61747-3:1999**

ICS:

31.120	Elektronske prikazovalne naprave	Electronic display devices
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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61747-3

September 1999

ICS 31.120.10

English version

Liquid crystal and solid state display devices
Part 3: Sectional specification for liquid crystal display (LCD) cells
(IEC 61747-3:1998)

Dispositifs d'affichage à cristaux
liquides et à semiconducteurs
Partie 3: Spécification intermédiaire
pour les cellules pour dispositifs
d'affichage à cristaux liquides
(CEI 61747-3:1998)

Flüssigkristall- und
Halbleiter-Anzeige-Bauelemente
Teil 3: Rahmenspezifikation für
Flüssigkristall-Anzeigezellen (LCD-Zellen)
(IEC 61747-3:1998)

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This European Standard was approved by CENELEC on 1999-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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, Czech Republic, 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

Foreword

The text of the International Standard IEC 61747-3:1998, prepared by SC 47C, Flat panel display devices, of IEC TC 47, Semiconductor devices, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 61747-3 on 1999-08-01 without any modification.

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) 2000-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-08-01

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61747-3:1998 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61747-1	1998	Liquid crystal and solid-state display devices Part 1: Generic specification	EN 61747-1	1999

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INTERNATIONAL STANDARD

IEC 61747-3

QC 720200

First edition
1998-02

Liquid crystal and solid state display devices –

Part 3:

Sectional specification for liquid crystal display (LCD) cells

iTeh STANDARD PREVIEW
Dispositifs d'affichage à cristaux liquides
et à semi-conducteurs
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Spécification intermédiaire pour les cellules
pour dispositifs d'affichage à cristaux liquides

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIQUID CRYSTAL AND SOLID-STATE DISPLAY DEVICES –

Part 3: Sectional specification for liquid crystal display (LCD) cells

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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 liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
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- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61747-3 has been prepared by subcommittee 47C: Optoelectronic, display and imaging devices, of IEC technical committee 47: Semiconductor devices.

This part of IEC 61747 is a sectional specification for liquid crystal display cells. It should be read together with the generic specification to which it refers.

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

FDIS	Report on voting
47C/196/FDIS	47C/201/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.

The QC number that appears on the front cover of this publication is the specification number in the IECQ Quality Assessment System for Electronic Components (IECQ).

LIQUID CRYSTAL AND SOLID-STATE DISPLAY DEVICES –

Part 3: Sectional specification for liquid crystal display (LCD) cells

1 Scope

This sectional specification applies to liquid crystal cells of the segment type monochrome liquid crystal display cells. It gives details of the quality assessment procedures, the inspection requirements, screening sequences, sampling requirements and test and measurement procedures required for the assessment of liquid crystal display cells.

Instead of the qualification approval procedure, it is allowed to apply the capability approval procedure (see rules of procedure QC 001002, subclause 11.7, but at present capability approval procedure for the liquid crystal display cells is under consideration) for all products manufactured in a defined process.

All the requirements of this specification remain valid, unless modified by the requirements set out in 4.7.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of IEC 61747. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 61747 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61747-1:— *Liquid crystal and solid-state display devices – Part 1: Generic specification* 1)

3 Definitions (related to manufacturing operations)

For the purpose of this part of IEC 61747, the following definitions apply.

3.1

production line

a single set of process operations including one or several of the following manufacturing phases:

- a) electrode patterning process;
- b) alignment treatment process;
- c) assembly process;
- d) liquid crystal material filling process;
- e) finishing process;
- f) inspection process.

NOTE – Quality assessment procedures are not included in these phases.

1) To be published.