

INTERNATIONAL STANDARD

IEC 60095-2

1984

AMENDMENT 2
1993-05

Amendment 2 Lead-acid starter batteries –

Part 2: Dimensions of batteries and dimensions and marking of terminals

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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FOREWORD

This amendment has been prepared by IEC technical committee 21: Secondary cells and batteries.

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

DIS	Report on Voting
21(CO)323	21(CO)329

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

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Add, after the title of clause 17, section six, the following title of new section seven and titles of clauses 18 and 19:

**SECTION SEVEN: HANDLING OF STARTER BATTERIES
BY ROBOT-EQUIPMENT; GRIP LEDGES**

18 Scope

19 Position and dimensions of robot-ledges

**SECTION SEVEN: HANDLING OF STARTER BATTERIES
BY ROBOT-EQUIPMENT; GRIP LEDGES**

INTRODUCTION

Starter batteries are increasingly being installed by car manufacturers into car bodies by robot units. This practice requires appropriate means for the exact positioning of robot arms on the battery case.

Also it may be necessary to control the matching of a particular battery to the corresponding car model on the assembly line by automatic reading identification marks (for example, bar code) with sensors on the robot arms.

18 Scope

The object of this section is to specify the position and dimensions of grip ledges on battery cases according to IEC 95-2, third edition, 1984), series L and LB, for handling by robot assembly equipment. Such ledges may optionally be requested by agreement between the car manufacturer and the battery manufacturer.

The specification of a preferred area on the battery case for the positioning of the identification code to be read by electronic means (for example, optical sensors) is presently under study.

19 Position and dimensions of robot-ledges

If robot grip ledges are requested, they shall conform with the dimensions and positions shown in figures 12a, 12b and 12c.

Figure 12a shall correspond to series L.

Figures 12b and 12c are alternatives, both corresponding to series LB of IEC 95-2. In consequence, dimensions indicated as "*h*" and "*b*" shall be those of table I of IEC 95-2.

The robot grip ledges shall be integral parts of the battery case.

It is emphasized that, according to the detail drawing X, the robot grip ledges shall not exceed dimensions l_1 and b of table I of IEC 95-2.

NOTE - If robot grip ledges are requested, it is preferred that they are on the two long sides.

They may, however, alternatively be on the two short sides or on all four sides.

In all cases, they should conform to the dimensions given in this section.

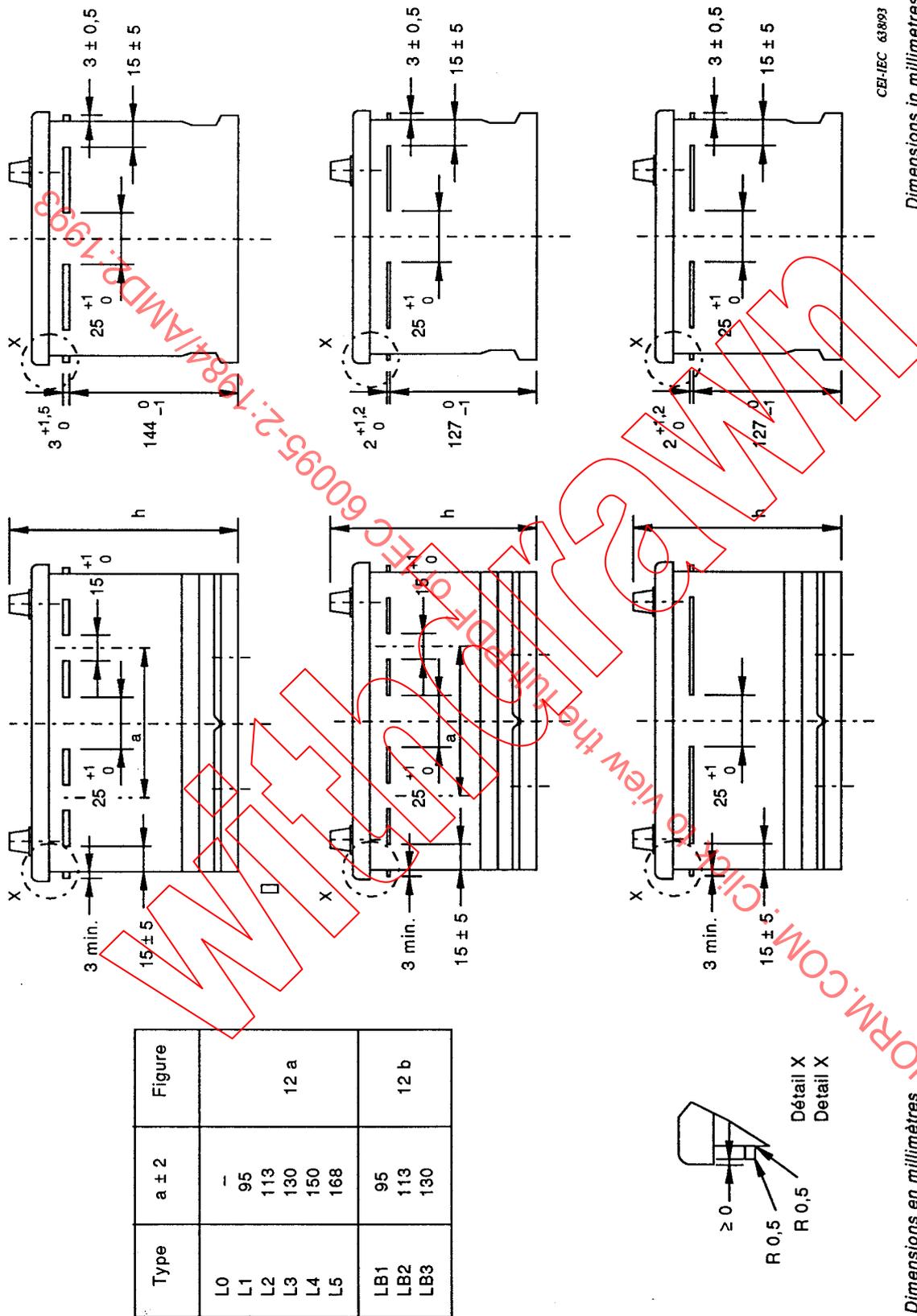


Figure 12 – Emplacement et dimensions des nervures pour robots
 Position and dimensions of robot-ledges