

Tariifikellad tariifi ja koormuse juhtimiseks

Time switches for tariff and load control

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Descriptors: Electrical energy, tariff control, load control, time switch

English version

Time switches for tariff and load control

(IEC 1038 : 1990, modified)

Horloges de commutation pour tarification et
contrôle de charge
(CEI 1038 : 1990, modifiée)

Schaltuhren für Tarif- und Laststeuerung
(IEC 1038 : 1990, modifiziert)

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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.

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CENELEC

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

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Foreword

Following the advice of CENELEC Technical Committee TC 13, Equipment for electrical energy measurement and load control, the CENELEC 69 Technical Board decided to submit the text of IEC 1038 : 1990, together with some common modifications prepared by TC 13, to the CENELEC formal vote.

The text of the draft was approved by CENELEC as EN 61038 on 15 September 1992.

The following dates are fixed:

- latest date of publication of an identical national standard (dop) 1993-06-01
- latest date of withdrawal of conflicting standards (dow) 1993-06-01

For products which have complied with the relevant national standard before 1993-06-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-06-01.

Annexes designated 'normative' are part of the body of the standard. Annexes designated 'informative' are given only for information. In this standard, annexes A, B, C and ZA are normative and annex D is informative.

Statement

The International Standard IEC 1038 : 1990, together with the common modifications attached can be used in its present state. However the answers received from the members to the Primary Questionnaire showed that a number of complementary studies (which do not affect fundamentally the present text) were needed; these complementary studies have been proposed to IEC TC 13. They could lead to a draft amendment to IEC 1038, draft which should then be submitted to the parallel IEC/CENELEC voting procedure (this amendment could also include the common modifications).

TIME SWITCHES FOR TARIFF AND LOAD CONTROL

1 Scope

This International Standard specifies requirements for the type test of newly manufactured indoor time switches with operation reserve that are used to control electrical loads, multi-tariff registers and maximum demand devices at certain days and hours throughout the year. These time switches may employ various types of operation including the use of electronic circuits. This Standard does not apply to time switches operated by remote control or synchronized by radio-frequency.

This Standard includes time switches with analogue dials or digital display that are:

- synchronous;
- crystal-controlled.

This standard does not cover the acceptance tests and the conformity tests. (Nevertheless, an example of what could be an acceptance test is given in annex D.)

The reliability aspect is not covered either in this standard as there are no short term procedures available which would fit into type test documents to check these requirements satisfactorily.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 50(301): 1983, *International Electrotechnical Vocabulary (IEV) Chapter 301: General terms on measurements in electricity.*

IEC 60: *High-voltage test techniques.*

IEC 68-2-1: 1974, *Environmental testing – Part 2: Tests. Tests A: Cold.* (Amendment No. 1: 1983, *First supplement: 1976*).

IEC 68-2-2: 1974, *Environmental testing – Part 2: Tests. Tests B: Dry Heat.*

IEC 68-2-6: 1982, *Environmental testing – Part 2: Tests. Test Fc and guidance: Vibration (sinusoidal).*

IEC 68-2-27: 1987, *Environmental testing – Part 2: Tests. Test Ea and guidance: Shock.*

IEC 68-2-30: 1980, *Environmental testing – Part 2: Tests. Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle).*

IEC 85: 1984, *Thermal evaluation and classification of electrical insulation.*

IEC 255-4: 1976, *Electrical relays. Single input energizing quantity measuring relays with dependent specified time. (Amendment No. 1: 1979).*

IEC 269-3, 1987, *Low voltage fuse - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications). (First supplement: Appendix A: Examples of standardized fuses for domestic and similar applications.)*

IEC 410: 1973, *Sampling plans and procedures for inspection by attributes.*

IEC 417C: 1977, *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets. Third supplement.*

IEC 529: 1989, *Degrees of protection provided by enclosures (IP Code).*

IEC 664: 1980, *Insulation co-ordination within low-voltage systems including clearances and creepage distances for equipment. (First supplement: 1981).*

IEC 695-2-1: 1980, *Fire hazard testing – Part 2: Test methods. Glow-wire test and guidance.*

IEC 721-3-3: 1987, *Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities. Stationary use at weatherprotected locations.*

IEC 801-2: 1984, *Electromagnetic compatibility for industrial-process measurement and control equipment – Part 2: Electrostatic discharge requirements.*

IEC 801-3: 1984, *Electromagnetic compatibility for industrial-process measurement and control equipment – Part 3: Radiated electromagnetic field requirements.*

IEC 801-4: 1988, *Electromagnetic compatibility for industrial-process measurement and control equipment – Part 4: Electrical fast transient/burst requirements.*

IEC 817: 1984, *Spring-operated impact-test apparatus and its calibration.*