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Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor starting relays

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Automatische elektrische Regel- und Steuergeräte für den Hausgebrauch und ähnliche Anwendungen - Teil 2-10: Besondere Anforderungen an Motorstartrelais

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Dispositifs de commande électrique automatiques a usage domestique et analogue - Partie 2-10: Regles particulieres pour les relais électriques de démarrage de moteur

Ta slovenski standard je istoveten z: EN 60730-2-10:2007

ICS:

97.120 Avtomatske krmilne naprave Automatic controls for
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SIST EN 60730-2-10:2008**en,fr,de**

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English version

**Automatic electrical controls for household and similar use -
Part 2-10: Particular requirements for motor-starting relays
(IEC 60730-2-10:2006)**

Dispositifs de commande électrique
automatiques à usage domestique
et analogue -
Partie 2-10: Règles particulières
pour les relais électriques
de démarrage de moteur
(CEI 60730-2-10:2006)

Automatische elektrische
Regel- und Steuergeräte
für den Hausgebrauch
und ähnliche Anwendungen -
Teil 2-10: Besondere Anforderungen
an Motorstartrelais
(IEC 60730-2-10:2006)

iTeh STANDARD PREVIEW
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This European Standard was approved by CENELEC on 2007-09-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 60730-2-10:2006, prepared by IEC TC 72, Automatic controls for household use, was submitted to the formal vote and was approved by CENELEC as EN 60730-2-10 on 2007-09-01.

This European Standard supersedes EN 60730-2-10:1995 + corrigendum March 2001 + A1:1996 + corrigendum March 2001 + A2:2002.

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) 2008-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-09-01

This Part 2-10 is to be used in conjunction with EN 60730-1:2000 + A1:2004, Automatic electrical controls for household and similar use – Part 1: General requirements, and any subsequent amendments.

This Part 2-10 supplements or modifies the corresponding clauses in EN 60730-1 so as to convert that publication into the European Standard: Particular requirements for electrically operated motor-starting relays.

Where this Part 2-10 states "addition", "modification" or "replacement", the relevant requirement, test specification or explanatory matter in Part 1 should be adapted accordingly.

Where no change is necessary, this Part 2-10 indicates that the relevant clause or subclause applies.

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- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

Subclauses, notes, items or figures which are additional to those in Part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc.

Endorsement notice

The text of the International Standard IEC 60730-2-10:2006 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONALE
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STANDARD

CEI
IEC

60730-2-10

Deuxième édition
Second edition
2006-10

**Dispositifs de commande électrique
automatiques à usage domestique et analogue –**

**Partie 2-10:
Règles particulières pour les relais
électriques de démarrage de moteur**

(standards.iteh.ai)

**Automatic electrical controls
for household and similar use –**

**Part 2-10:
Particular requirements for motor-starting relays**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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CONTENTS

FOREWORD.....	5
1 Scope and normative references	9
2 Definitions	11
3 General requirements	11
4 General notes on tests	11
5 Rating	11
6 Classification.....	11
7 Information	13
8 Protection against electric shock	13
9 Provision for protective earthing	13
10 Terminals and terminations	15
11 Constructional requirements.....	15
12 Moisture and dust resistance	15
13 Electric strength and insulation resistance.....	15
14 Heating	15
15 Manufacturing deviation and drift.....	15
16 Environmental stress	15
17 Endurance.....	15
18 Mechanical strength	15
19 Threaded parts and connections.....	17
20 Creepage distances, clearances and distances through solid insulation	17
21 Resistance to heat, fire and tracking.....	17
22 Resistance to corrosion	17
23 Electromagnetic compatibility (EMC) requirements – emission	17
24 Components	17
25 Normal operation.....	17
26 Electromagnetic compatibility (EMC) requirements – immunity	17
27 Abnormal operation	17
28 Guidance on the use of electronic disconnection	19
Annexes	19
Annex C (normative) Cotton used for mercury switch test	19
Annex E (normative) Circuit for measuring leakage current.....	19
Annex H (normative) Requirements for electronic controls.....	19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**AUTOMATIC ELECTRICAL CONTROLS
FOR HOUSEHOLD AND SIMILAR USE –****Part 2-10: Particular requirements for motor-starting relays**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60730-2-10 has been prepared by IEC technical committee 72: Automatic controls for household use.

This second edition cancels and replaces the first edition published in 1991, Amendment 1 (1994) and Amendment 2 (2001). This second edition constitutes a technical revision and updates the standard to current practices as well as to the applicable horizontal standards.

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

FDIS	Report on voting
72/711/FDIS	72/724/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-10 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the third edition of that standard (1999) and its Amendment 1 (2003). Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This Part 2-10 supplements or modifies the corresponding clauses in IEC 60730-1 so as to convert that publication into the IEC standard: Particular requirements for electrically operated motor-starting relays.

Where this Part 2-10 states "addition", "modification" or "replacement", the relevant requirement, test specification or explanatory matter in Part 1 should be adapted accordingly.

Where no change is necessary, this Part 2-10 indicates that the relevant clause or subclause applies.

In the development of a fully international standard, it has been necessary to take into consideration the differing requirements resulting from practical experience in various parts of the world and to recognize the variation in national electrical systems and wiring rules.

In this publication, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

Subclauses, notes, items or figures which are additional to those in Part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc.

A list of all parts of the IEC 60730 series, under the general title *Automatic electrical controls for household and similar use*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site 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.

AUTOMATIC ELECTRICAL CONTROLS FOR HOUSEHOLD AND SIMILAR USE –

Part 2-10: Particular requirements for motor-starting relays

1 Scope and normative references

This clause of Part 1 is applicable except as follows:

1.1 Replacement:

This part of IEC 60730 applies to controls for automatically controlling the starting windings of single phase motors associated with equipment for household and similar use.

This standard applies to motor-starting relays using NTC or PTC thermistors, additional requirements for which are contained in Annex J.

1.1.1 This standard applies to the inherent safety, to the operating values, operating times and operating sequences where such are associated with equipment safety, and to the testing of motor-starting relays used in or in association with, household or similar equipment.

Motor-starting relays for equipment not intended for normal household use, but which nevertheless may be used by the public, such as equipment intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

This standard does not apply to motor-starting relays designed exclusively for industrial applications.

Throughout this standard, the word "equipment" means "appliance and equipment". The words "starting relay" mean "motor-starting relay".

1.1.2 This standard applies to starting relays incorporating electronic devices and starting relays using thermistor elements, thermal elements and magnetic elements.

1.1.3 This standard does not apply to general purpose relays or to contactors and motor starters of the type covered by the IEC 60947 series¹. This standard does not apply to mechanical timers or mechanically operated motor-starting devices.

1.1.4 This standard applies to manual controls when such are electrically and/or mechanically integral with starting relays.

Requirements for manual switches not forming part of a starting relay are contained in IEC 61058-1.

¹ IEC 60947 (all parts), *Low-voltage switchgear and controlgear*