



CANADIAN STANDARDS  
ASSOCIATION

## INFO UPDATE

# ***Electrical/Electronics***

## **Volume 7 — November 2008**

**Issue date: November 7, 2008**

*Info Update* is published by the Canadian Standards Association (CSA) eight times a year. It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards. It also gives you highlights of other activities and services.

CSA offers a free online service called *Keep Me Informed* that will notify registered users when each new issue of *Info Update* is published. To register go to <http://www.csa-intl.org/onlinestore/KeepMeInformed/PleaseIdentifyYourself.asp?Language=EN>.

To view the complete issue of *Info Update* visit <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

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### What you'll find

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Within each program, information is organized into the following sections:

#### **Completed Projects / Projets terminés**

##### ▼ **New Standards – New Editions – Special Publications**

This section lists new standards, new editions (including adoptions), and special publications that have been published since the last issue of *Info Update*. To place your order call 1-800-463-6727 or visit our Online Store at <http://www.csa.ca>. Prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges. Our office locations are listed at the end of this document.

##### ▼ **Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français**

Cette section énumère les nouvelles normes et éditions (y compris les normes adoptées) ainsi que les publications spéciales qui ont paru depuis la dernière livraison du bulletin Info-Update. Pour commander, composez le 1 800 463-6727 ou visitez notre Boutique en ligne, au <http://www.csa.ca>. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition. La liste de nos bureaux est présentée à la fin de ce document.

##### ▼ **Amendments**

Amendments are issued periodically for some standards. This section lists amendments that have been published since the last issue of *Info Update*. Most amendments are made available to the purchaser free of charge by returning the update notification card included in the standard or registering online for the update service through the Online Store at <http://www.csa.ca> and clicking on "My Account" on the navigation bar. Amendments developed by other standards development organizations, and adopted by CSA are made available for a fee. The prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges.

##### ▼ **Modifications publiées en français**

Dans le cas de certaines normes, des modifications sont publiées à intervalles réguliers. Cette section présente la liste des modifications publiées depuis la dernière livraison du bulletin *Info-Update*. La plupart des modifications étant offertes gratuitement, vous n'avez qu'à remplir et à nous retourner la carte d'avis de mise à jour incluse avec chaque norme. Vous pouvez également vous inscrire en direct à notre service de mise à jour en vous rendant à la Boutique en ligne, au <http://www.csa.ca>, et en cliquant sur le bouton « Mon compte » de la barre de navigation. Des frais s'appliquent toutefois aux modifications élaborées par d'autres organismes de normalisation et adoptées par la CSA. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition.

##### ▼ **Adopted Standards**

Adopted standards have been developed by another standards development organization and have been approved by our technical committee for use in Canada, with or without modification. They are available for sale from CSA. You will find published adopted standards listed under "New Standards — New Editions — Special Publications."

##### ▼ **Endorsed Standards**

Endorsed standards have been developed by another standards development organization, and have been approved by the appropriate CSA technical committee for use in Canada.

Endorsed standards are not sold by CSA.

For copies, contact the originating organization or Global Info Centre Canada at 1-800-854-7179 or 613-237-4250; fax 613-237-4251; e-mail [gic@ihscanada.ca](mailto:gic@ihscanada.ca); Web site <http://www.global.ihs.com>.

## **Completed Projects (cont'd) / Projets terminés (suite)**

### ▼ Reaffirmed Standards

The standards listed in this section have been reviewed to determine if they remain technically valid and are acceptable for use until the next edition is published or for a further five years.

### ▼ Withdrawn Standards

The standards listed in this section have been withdrawn. Most withdrawn standards are available from our archived collection. Some copies may not be in original format.

To order, call toll-free 1-800-463-6727 (in Toronto, 416-747-4044).

### ▼ Formal Interpretations

This section lists questions that individuals have submitted about a particular standard. Each question has been reviewed and answered by the appropriate committee. If you would like to submit a question about a particular standard, please see the end notes in the preface of that standard.

## **Under Development**

The *Under Development* section formerly published in *Info Update* is now available directly on the CSA website. This enhancement allows us to provide you with these important notifications on a more timely basis. To visit the new "Current Standards Activities" page, go to: <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

## **Certification and Testing (CSA International)**

### ▼ Informs Notices (Bulletins from CSA International)

An *Informs* is a notice containing information only. It does not contain anything that would require you to resubmit products for certification. If you would like a copy of an *Informs* notice, call CSA International at 416-747-4171, or fax 416-747-2476.

### ▼ Certification Notices

Certification notices inform you about changes that would require a product to be resubmitted for certification or about critical factors that may affect a product's certification. Products must comply with the changed requirements by the effective dates given.

CSA certification and testing clients receive these notices automatically. If you did not receive a copy or would like to receive one, call CSA International at 416-747-2488, or fax 416-747-4173.



**Completed Projects / Projets terminés**

**New Standards – New Editions – Special Publications**

**C22.2 No. 45.2-08, 1st edition**

*Electrical Rigid Metal Conduit — Aluminum, Red Brass, and Stainless Steel* (tri-national standard with NMX-J-576-ANCE, second edition, and UL 6A, second edition)

PDF Only ..... \$655

The requirements in this standard cover aluminum (ERMC-A) and stainless steel (ERMC-SS) electrical rigid metal conduit, nipples, elbows, and couplings in 12 – 155 (3/8 – 6) trade sizes for use as metal raceway for the installation of wires and cables in accordance with CSA C22.1, *Canadian Electrical Code, Part I*, NOM-001-SEDE, *Standard for Electrical Installations*, and NFPA 70, *National Electrical Code*. It is the user’s responsibility to determine the appropriate product for the application.

The requirements in this standard also cover red brass (ERMC-RB) electrical rigid metal conduit, nipples, elbows, and couplings in 16 (1/2) trade size for use as metal raceway for the installation of wires and cables in direct burial and swimming pool applications in accordance with the applicable national electrical installation codes.

**C22.2 No. 113-08, 7th edition**

*Fans and Ventilators*

PDF Only ..... \$150

This standard applies to cord-connected and permanently connected fans and ventilators intended to be:

- connected to supply circuits of 600 V and less
- used in nonhazardous locations
- used in accordance with the Rules of the *Canadian Electrical Code, Part I*.

This standard applies to fans and ventilators for ventilating or exhaust purposes and filter units consisting of an air-circulating fan and a mechanical filter.

This standard applies to fans and ventilators of the air-circulating type, such as desk, pedestal, hassock, utility, suitcase, and pendant ceiling fans.

This standard applies to fans and ventilators of the ventilating type, such as wall insert, ceiling insert, attic, household hood or canopy, and window fans.

**C50-08, 6th edition**

*Mineral Insulating Oil, Electrical, for Transformers and Switches*

PDF Only ..... \$75

This standard specifies requirements for mineral oil of petroleum origin for use in transformers, oil circuit breakers, or other electrical equipment (excluding high-voltage cables) requiring a liquid insulating and cooling medium.



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## Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

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### **C22.3 n° 9-08, 1<sup>re</sup> édition**

*Interconnexion des ressources décentralisées et des réseaux de distribution d'électricité*

PDF seulement .....135 \$

Cette norme énonce les exigences techniques pour l'interconnexion des ressources décentralisées (RD) et des réseaux de distribution d'au plus 50 kV phase-phase. Elle s'applique à toutes les technologies de ressources décentralisées permettant une capacité combinée d'au plus 10 MW au point de couplage commun (PCC).

Cette norme ne définit pas la capacité maximale des RD ni la limite supérieure de tension pour les installations interconnectées avec un seul PCC ou raccordées à une artère donnée.

Cette norme s'applique à l'interconnexion :

- a) des systèmes RD à onduleur et des réseaux de distribution avec PCC à moyenne tension ; et
- b) des systèmes RD à génératrice et des réseaux de distribution avec PCC à basse ou moyenne tension.

La CAN/CSA-C22.2 n° 257 porte sur l'interconnexion des systèmes RD à onduleur et des réseaux de distribution avec PCC à basse tension.

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## Amendments

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### **C22.2 No. 36-08**

*Hairdressing Equipment*

Revision of Clauses 5.5.1.1 and 5.5.2.1, and Table 4.

This document is available in Portable Document Format (PDF) only.

### **C22.2 No. 42-99 (R2004)**

*General Use Receptacles, Attachment Plugs, and Similar Wiring Devices*

Revision of the Contents, Clauses 2.1, 4.1.2.1, and 7.8.10, and Figures 1, 5, 10, and 25. Addition of Clauses 4.10, 6.18, and 7.35, Table A5, and Figures 29–33.

This document is available in Portable Document Format (PDF) only.

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## Reaffirmed Standards

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### **CAN3-C17-M84 (R2008)**

*Alternating-Current Electricity Metering*

### **C22.2 No. 8-M1986 (R2008)**

*Electromagnetic Interference (EMI) Filters*

## **Reaffirmed Standards (cont'd)**

### **C22.2 No. 12-1982 (R2008)**

*Portable Luminaires*

### **C22.2 No. 23.1-M1986 (R2008)**

*Electric Furnaces in Combination with Solid Fuel Fired Furnaces*

### **CAN/CSA-C22.2 No. 65-03 (R2008)**

*Standard for Wire Connectors* (tri-national standard with NMX-J-543-ANCE, first edition, and UL 486A-486B, first edition)

### **C22.2 No. 89-1976 (R2008)**

*Swimming-Pool Luminaires, Submersible Luminaires and Accessories*

### **C22.2 No. 92-1971 (R2008)**

*Dehumidifiers*

### **C22.2 No. 101-M1984 (R2008)**

*Electrically Heated Bedding Appliances for Household Use*

### **C22.2 No. 118-1959 (R2008)**

*Construction and Test of Picture Machines and Appliances*

### **C22.2 No. 153-M1981 (R2008)**

*Quick-Connect Terminals*

### **C22.2 No. 166-M1983 (R2008)**

*Stage and Studio Luminaires*

### **C22.2 No. 180-M1983 (R2008)**

*Series Isolating Transformers for Airport Lighting*

### **C22.2 No. 206-M1987 (R2008)**

*Lighting Poles*

### **CAN/CSA-C22.2 No. 207-M89 (R2008)**

*Portable and Stationary Electric Signs and Displays*

### **C22.2 No. 209-M1985 (R2008)**

*Thermal Cut-Offs*

### **C22.2 No. 1335.1-93 (R2008)**

*Portable Electrical Motor-Operated and Heating Appliances: General Requirements*

### **C22.2 No. 1335.2.9-93 (R2008)**

*Portable Electrical Motor-Operated and Heating Appliances: Particular Requirements for Portable Electric Cooking Appliances*



## Reaffirmed Standards (cont'd)

### **C22.2 No. 1335.2.14-93 (R2008)**

*Portable Electrical Motor-Operated and Heating Appliances: Particular Requirements for Electrical Motor-Operated Kitchen Appliances*

### **CAN/CSA-C22.2 No. 1335.2.15-93 (R2008)**

*Portable Electrical Motor-Operated and Heating Appliances: Particular Requirements for Liquid-Heating Appliances*

### **CAN/CSA-C68.1-92 (R2008)**

*Specifications for Impregnated Paper-Insulated Metallic-Sheathed Cable, Solid Type*

### **CAN/CSA-C71-1-99 (R2008)**

*Insulation co-ordination — Part 1: Definitions, principles and rules*

(Adopted CEI/IEC 71-1: 1993, seventh edition, with Canadian deviations)

### **CAN/CSA-E335-1/2E-94 (R2008)**

*Safety of household and similar electrical appliances — Part 1: General requirements*

(Adopted CEI/IEC 335-1:1976, second edition, with Canadian deviations)

### **CAN/CSA-E335-1/3E-94 (R2008)**

*Safety of household and similar electrical appliances — Part 1: General requirements*

(Adopted CEI/IEC 335-1:1991, third edition, with Canadian deviations)

### **CAN/CSA-E384-14-1-95 (R2008)**

*Fixed capacitors for use in electronic equipment — Part 14: Blank detail specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains — Assessment level D* (Adopted CEI/IEC 384-14-1:1993, first edition, without modification)

### **CAN/CSA-E730-2-1-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for electrical controls for electrical household appliances*

(Adopted CEI/IEC 730-2-1:1989, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-3-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps*

(Adopted CEI/IEC 730-2-3:1990, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-4-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type* (Adopted CEI/IEC 730-2-4:1990, first edition,

with Canadian deviations)

## Reaffirmed Standards (cont'd)

### **CAN/CSA-E730-2-6-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements* (Adopted CEI/IEC 730-2-6:1991, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-7-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for timers and time switches* (Adopted CEI/IEC 730-2-7:1990, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-10-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for electrically operated motor starting relays* (Adopted CEI/IEC 730-2-10:1991, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-11-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for energy regulators* (Adopted CEI/IEC 730-2-11:1993, first edition, with Canadian deviations)

### **CAN/CSA-E730-2-12-94 (R2008)**

*Automatic electrical controls for household and similar use — Part 2: Particular requirements for electrically operated door locks* (Adopted CEI/IEC 730-2-12:1993, first edition, with Canadian deviations)

### **CAN/CSA-E61965:04 (R2008)**

*Mechanical safety of cathode ray tubes* (Adopted IEC 61965:2003, second edition, without modification)

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## Endorsed Standards

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### **IEC 60454-2 (2007)**

*Pressure-sensitive adhesive tapes for electrical purposes — Part 2: Methods of test*

### **IEC 60626-3 (2008)**

*Combined flexible materials for electrical insulation — Part 3: Specifications for individual materials*





## Certification and Testing (CSA International)

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### Certification Notices

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**Please note:** ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
December 31, 2008	Publication of the third edition of CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> .	Wiring Devices No. 37
December 31, 2008	Publication of CSA standard C22.2 No. 256-05, <i>Direct Plug-In Nightlights</i> .	Lighting Products No. 49
January 30, 2009	Publication of CSA standard C22.2 No. 45.1-07, <i>Electrical Rigid Metal Conduit — Steel</i> (tri-national standard with UL 6 and NMX-J-534-ANCE-2007). (Supersedes Conduit No. 14.)	Conduit No. 21
January 30, 2009	Publication of CSA standard C22.2 No. 83.1-07, <i>Electrical Metallic Tubing — Steel</i> (tri-national standard with UL 797 and NMX-J-536-ANCE-2007). (Supersedes Raceways and Fittings No. 5.)	Raceways and Fittings No. 6
January 31, 2009	Publication of Update No. 1 to CSA standard C22.2 No. 18.3-04, <i>Conduit Tubing and Cable Fittings</i> (tri-national standard with NMX-J-017-ANCE and UL514B).	Wiring Products No. 10
February 27, 2009	New and revised requirements in standard UL 588, <i>Seasonal and Holiday Decorative Products, 18th edition</i> .	Lighting Products No. 50
April 30, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 112-97 (R2007), <i>Electric Clothes Dryers</i> (bi-national standard with UL 2158). Update contains revisions for installation instructions.	Clothes Dryer Equipment No. 4
July 1, 2009	Publication of CSA standard CAN/CSA-E60691:08, <i>Thermal-Links — Requirements and Application Guide</i> (Adopted CEI/IEC 60691:2002, third edition, including Amendment 1:2006, with Canadian deviations)	Signal Sensing and Controls No. 5
December 15, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 227.2.1-04, <i>Liquid-Tight Flexible Nonmetallic Conduit</i> (bi-national standard with UL 1660).	Conduit No. 22

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
December 31, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> . (Supersedes Wiring Devices No. 37.)	Wiring Devices No. 37A
January 1, 2010	Publication of the second edition of CSA standard CAN/CSA-C681-06, <i>Performance of Self-Ballasted Compact Fluorescent lamps and Ballasted Adapters</i> .	Verification Service Announcement No. 35
March 10, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 243-01, <i>Vacuum Cleaners, Blower Cleaners and Household Floor Finishing Machines</i> (bi-national standard with UL 1017).	Vacuum Cleaners and Blower Cleaners No. 9
March 31, 2010	Publication of Amendments to UL 1059, <i>Terminal Blocks</i> . (Supersedes Wiring Devices No. 40.)	Wiring Devices No. 40A
May 31, 2010	Publication of CSA standard C68.10-08, <i>Shielded Power Cable for Commercial and Industrial Applications, 5-46 KV</i> .	Wire and Cable No. 139
May 31, 2010	Extension of effective date for CSA standard CAN/CSA-C22.2 No. 42.1-00, <i>Cover Plates for Flush-Mounted Wiring Devices</i> (bi-national standard with UL 514D).	Wiring Devices No. 39A
June 1, 2010	Publication of CSA standards CAN/CSA-C22.2 No. 60745-1-04 and CAN/CSA-C22.2 No. 60745-2-04 (bi-national standards with UL 60745-1 and associated Part 2 series standards).	Electrical Tools No. 15
July 1, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 62.1-03, <i>Nonmetallic Surface Raceways and Fittings</i> (bi-national standard with UL5A).	Raceways and Fittings No. 7
December 1, 2010	Publication of CSA standard CAN/CSA-C22.2 No. 60950-1-07 (bi-national standard with UL 60950-1).	Information Technology and Electrical Business Equipment No. 16

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
January 1, 2012	Publication of CAN/CSA-E61131-2:06, <i>Programmable controllers — Part 2: Equipment requirements and tests</i> (Adopted IEC 61131-2:2003, 2nd edition, with Canadian deviations).	Programmable Controllers No. 1
May 1, 2012 (Canada)	Publication of bi-national standard CSA C22.2 No. 66-06 Series and UL 5085 Series, <i>Low Voltage Transformers</i> .	Transformers No. 6
August 21, 2016	Publication of CAN/CSA-C22.2 No. 60335-2-24-06, <i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances and Ice Makers</i> (tri-national standard with UL 60335-2-24 and NMX-J-521/2-24-ANCE-2006. Adopted IEC 60335-2-24:2002, sixth edition, with national deviations).	Household Refrigerators and Freezers No. 3