



National Differences For

UL 62841-1

**Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery
- Safety - Part 1: General Requirements**

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM**



Documents

Document Sharing Hub

National Differences For

UL 62841-1

Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery -
Safety - Part 1: General Requirements

Edition: 1

Edition Date: February 20, 2015

Adoption Of The First Edition Of UL 62841-1, Standard For Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 1: General Requirements

UL 62841-1 is an adoption of IEC 62841-1, First Edition, issued by the IEC March 2014, and includes IEC Corrigendum 1 for IEC 62841-1 published May, 2014. Please note that the National Difference document incorporates all of the U.S. national differences for UL 62841-1.

This document provides a single listing of the National Differences included in the UL adoption of the corresponding IEC standard.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this standards document "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this standards document, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this standards document, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

Copyright © 2015 Underwriters Laboratories Inc.

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM**



Documents
Document Sharing Hub

Preface

This document provides a single listing of the technical National Differences included in the UL adoption of the corresponding IEC standard.

In its IEC-based standards, UL uses the notations indicated below to identify national difference type, and these types are additionally noted in this document. The standard may not use all types of these deviations.

D1 - These are deviations which are based on basic safety principles and requirements, elimination of which would compromise safety for U.S. consumers and users of products.

D2 - These are deviations based on safety practices. These are deviations for IEC requirements that may be acceptable, but adopting the IEC requirements would require considerable retesting or redesign on the manufacturer's part.

DC - These are deviations based on the component standards and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE - These are deviations based on editorial comments or corrections.

DR - These are deviations based on the national regulatory requirements.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table, figure, or annex without any replacement text.

Modification / Modify - A modification is an altering of the existing base IEC text such as the addition, replacement or deletion of certain words or the replacement of an entire clause, subclause, table, figure, or annex of the base IEC text.

National Differences

2DV DE Modification: Add the following note to Clause 2:

See Annex DVA for additional reference standards that may apply.

DVA.1 D2 Addition: Add a new Annex DVA as follows:

The following is a cross reference of component standards. The requirements of the subject standards listed in Clause 2 shall be applicable, except where they are replaced by the U.S./Canadian standards listed in the table below.

For dated references, only the edition specified applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Table DVA – Standards Cross Reference

Clause, Table or Figure from this Standard	Purpose for Reference	Referenced Publication in Clause 2	U.S. Replacement Standard Requirement	Canadian Replacement Standard Requirement
13.2 K.13.2.201	Resistance to Heat and Fire	IEC 60695-11-10 • Fire Hazard Testing Part 11-10: Test Flames 50 W Horizontal and Vertical Flame Test Methods	*	*
7.2 14.2.2 21.20	Degrees of Protection Provided by Enclosures (IP Code)	IEC 60529 • Degrees of Protection Provided by Enclosures (IP Code)	*	*
23.1.10 23.1.10.1 23.1.10.2 23.1.10.2.1 23.1.10.2.2	Switches for Appliances	IEC 61058-1 • Switches for Appliances – Part 1: General Requirements	UL 61058-1 • Switches for Appliances – Part 1: General Requirements Or UL 6059 • Outline for Particular Requirements for Switches for Tools	CSA-C22.2 No. 61058-1 • Switches for Appliances – Part 1: General Requirements or Or CSA T.I.L. A-37 • Interim Certification Requirements for Switches Used in Tools
14.5	Portable Residual Current Devices (PRCDs)	IEC 61540 • Electrical Accessories – Portable Residual Current Devices without Integral Overcurrent Protection for Household and Similar Use (PRCDs)	UL 943 • Ground-Fault Circuit-Interrupters	C22.2 No. 144.1 • Ground-Fault Circuit-Interrupters

Table DVA – Standards Cross Reference Continued

Clause, Table or Figure from this Standard	Purpose for Reference	Referenced Publication in Clause 2	U.S. Replacement Standard Requirement	Canadian Replacement Standard Requirement
3.1 9.3 9.4 9.5 19.1 19.3 21.22 21.28 24.19 28.1 K.9.3 K.18.1 K.28.1 L.9.201 L.18.201 L.28.201	Test Probes	IEC 61032 • Protection of Persons and Equipment by Enclosures – Probes for Verification	*	*
5.18	General Tolerances	ISO 2768-1 • General Tolerances – Part 1: Tolerances for Linear and Angular Dimensions Without Individual Tolerance Indications	*	*
6.1	Measurement Methods for Electromagnetic Fields of Household Appliances and Similar Apparatus with Regard to Human Exposure	IEC 62233 • Measurement Methods for Electromagnetic Fields of Household Appliances and Similar Apparatus with Regard to Human Exposure	*	*
6.2	Lasers	IEC 60825-1 • Safety of Laser Products – Part 1: Equipment Classification and Requirements	Title 21 part 1040 • US, Code of Federal Regulations (CFR)	CSA E60825-1 • Safety Of Laser Products – Part 1: Equipment Classification and Requirements • Radiation Emitting Devices Regulations, C.R.C (CRC C.1370)
6.3.2 6.3.3	Photo-Biological Safety of Lamps and Lamp Systems	IEC 62471-1 • Photobiological Safety of Lamps and Lamp Systems	*	*
6.3.3	Photo-Biological Safety of Lamps and Lamp Systems	IEC/TR 62471-2 • Photobiological Safety of Lamps and Lamp Systems – Part 2: Guidance on Manufacturing Requirements Relating to Non-Laser Optical Radiation Safety	*	*

Table DVA – Standards Cross Reference Continued

Clause, Table or Figure from this Standard	Purpose for Reference	Referenced Publication in Clause 2	U.S. Replacement Standard Requirement	Canadian Replacement Standard Requirement
6.3.2 8.6 symbols 8.8 8.10	Graphical Symbols for Use on Equipment	IEC 60417 (DB) • Graphical Symbols for Use on Equipment	*	*
8.2	Graphical Symbols – Design Principles	ISO 3864-2 • Graphical Symbols Safety Colours and Safety Signs Part 2: Design Principles for Product Safety Labels	*	*
8.2	Graphical Symbols – Design Principles	ISO 3864-3 • Graphical Symbols – Safety Colours and Safety Signs – Part 3: Design Principles for Graphical Symbols for Use in Safety Signs	*	*
8.2 8.6 symbols	Graphical Symbols	ISO 7000 • Graphical Symbols for Use on Equipment – Registered Symbols	*	*
8.2 8.6 symbols	Graphical Symbols	ISO 7010 • Graphical Symbols – Safety Colours and Safety Signs – Registered Safety Signs	*	*
8.6 symbols 18.6 18.6.2	Symbol of Time-Delay Characteristic of Miniature Fuses	IEC 60127-1 • Miniature Fuses – Part 1: Definitions for Miniature Fuses and General Requirements for Miniature Fuse-Links	*	*
8.10	Emergency Stop	ISO 13850 • Safety of Machinery – Emergency Stop – Principles for Design	*	*
12.3.1 D.1 L.28.1	Heating Elements	IEC 60335-1 • Safety of Household and Similar Electrical Appliances, Part 1: General Requirements	*	*
I.3.1 I.3.6.2	Mechanical Vibration – Declaration and Verification of Vibration Emission Values	EN 12096 • Mechanical Vibration. Declaration and Verification of Vibration Emission Values.	*	*
13.1 K.13.1	Resistance to Heat and Fire	IEC 60695-10-2 • Fire Hazard Testing – Part 10-2: Abnormal Heat – Ball Pressure Test	*	*
13.2	Resistance to Heat and Fire	IEC 60695-2-13 • Fire Hazard Testing – Part 2-13: Glowing/Hot-Wire Based Test Methods – Glow-Wire Ignition Temperature (GWIT) Test Method for Materials	*	*
13.2 K.13.2 L.13.2	Resistance to Heat and Fire	IEC 60695-2-11 • Fire Hazard Testing – Part 2-11: Glowing/Hot-Wire Based Test Methods – Glow-Wire Flammability Test Method for End-Products	*	*