



UL 1917

STANDARD FOR SAFETY

Solid-State Fan Speed Controls

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UL Standard for Safety for Solid-State Fan Speed Controls, UL 1917

Fifth Edition, Dated June 17, 2022

Summary of Topics

This new edition of UL 1917 dated June 17, 2022 is being issued to add requirements covering separable terminals; [2.7](#), [2.10](#), Sections [9.2.2](#), [14.6](#), [14.7](#), and [38](#), [42.16](#), [42.17](#), [43.5](#) and [43.7](#).

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated April 22, 2022.

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Standard for Solid-State Fan Speed Controls

Prior to the first edition, the requirements for the products covered by this standard were included in the Standard for Electric Industrial Control Equipment, UL 508.

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Second Edition – February, 1994
Third Edition – February, 2003
Fourth Edition – July, 2013

Fifth Edition

June 17, 2022

This ANSI/UL Standard for Safety consists of the Fifth Edition.

The most recent designation of ANSI/UL 1917 as an American National Standard (ANSI) occurred on June 17, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 These requirements cover solid state speed controls rated 300 volts or less, single phase, intended to be connected to 15 – 20 ampere branch circuits and intended to be installed in accordance with the National Electrical Code, ANSI/NFPA 70 and used with:

- a) Fans and blowers that circulate air, such as desk, bracket, ceiling, hassock, pedestal, and utility fans;
- b) Fans and blowers that ventilate air, such as attic, wall-insert, ceiling-insert, household hood- and canopy-types, and window fans;
- c) Evaporative coolers;
- d) Air-filtering appliances;
- e) Fan-type deodorizers; and
- f) Fan-type air fresheners.

1.2 Inductive-type and capacitive-type fan speed controls are also covered by these requirements.

1.3 These requirements also cover the solid state fan speed control portion of controls which include dimmers for use with lighting fixtures.

1.4 Solid state fan speed controls provided with a power supply cord, those intended for permanent connection, and direct plug-in devices are also covered by this Standard.

1.5 These requirements do not cover solid state speed controls used with air heaters incorporating fans, heating-ventilating units, or blowers comprising components of such equipment as furnaces, mechanical-refrigeration equipment, air conditioners, or direct current output applications.

1.6 These requirements do not cover solid state speed controls used with fans intended to be:

- a) Used in hazardous locations as defined in the National Electrical Code, ANSI/NFPA 70;
- b) Installed over solvents or chemically flammable liquids or vapors; or
- c) Located in chemically corrosive environments.

2 Glossary

2.1 For the purpose of this standard the following definitions apply.

2.2 CORD CONNECTED DEVICE – A device intended for connection to the power source by means of a supply cord. Such a device is intended to be moved for reasons of interchange or realignment of the units of the system.

2.3 FAN, CEILING SUSPENDED – A fan intended to be mounted to a ceiling outlet box or ceiling building structure, and whose blades rotate below the ceiling. Popularly called a paddle fan.

2.4 FAN, GENERAL PURPOSE – Any fan not considered to be a ceiling-suspended fan or any fan which has a Locked Rotor Current/Full Load Current ratio greater than 1.5.