

Subject 2111

January 13, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Overheating Protection for Motors, UL 2111, are being proposed:

1. Deleting PART IV - THERMAL PROTECTORS from UL 2111.

STP BALLOTS AND ALL COMMENTS DUE: February 27, 2017

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 60730C, UL is looking for participants in the all interest categories except producers and supply chain. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 60730C membership or are aware of potential candidates for this STP, please contact the STP Project Manager, alan.t.mcgrath@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Deleting PART IV - THERMAL PROTECTORS from UL 2111.

RATIONALE

Proposal submitted by: Kirk Anderson, UL LLC

Since STP 60730C, Motor Thermal and compressor Protectors, adopted the Standard for Automatic Electrical Controls for Household and Similar Use; Part 2 Particular Requirements for Thermal Motor Protectors, UL 60730-2-2, and since those requirements are very much aligned with UL 2111, UL is now proposing to delete Part IV of UL 2111. If the proposed deletion of Part IV reaches consensus, the standard will be withdrawn since the July 28, 2016, revision pages deleted the other Parts of the Standard (as proposed in the UL Subject 2111 bulletin dated May 15, 2015.)

PROPOSAL

~~17 General~~

~~17.1 A thermal cutoff shall comply with the requirements in the Standard for Thermal Links—Requirements and Application Guide, UL 60691, in addition to the requirements of this standard.~~

~~17.2 Insulation for a protector intended for use in a Class A or Class B insulated motor shall be:~~

~~a) 1/32 inch (0.8 mm) [0.028 inch (0.7 mm)] minimum thickness treated fiber;~~

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- b) 0.004 inch (0.1 mm) minimum thickness polyethylene terephthalate (PETP);
- c) 0.015 inch (0.4 mm) minimum thickness silicone-impregnated fiberglass;
- d) 0.017 inch (0.4 mm) minimum thickness isocyanate-resin-impregnated fiberglass; or
- e) 0.006 inch (0.152 mm) minimum thickness aramid paper.

Exception: Other materials are capable of being used when they comply with the protector insulation test requirements in the Protector Insulation Test, Section 19, or the equivalent, and with the traceability requirements specified in UL 746A, Standard for Polymeric Materials — Short Term Property Evaluations.

~~17.3 Any insulation for a protector intended for use in a Class F or higher insulated motor shall comply with Protector Insulation Test, Section 19 and with the traceability requirements specified in UL 746A, Standard for Polymeric Materials — Short Term Property Evaluations.~~

~~17.4 Deleted March 28, 2001~~

~~17.5 Current-carrying parts of a protector shall be metal inherently resistant to corrosion or shall be treated to resist corrosion. Iron and steel parts shall be protected by enameling, galvanizing, plating or other means when the corrosion of such parts results in risk of electric shock, fire, or injury to persons.~~

Exception: Multimetallic thermal elements and heater elements are not required to be protected.

~~17.6 Protector components, such as wiring or polymeric materials, shall be rated for the maximum protector calibration temperature plus the tolerance.~~

~~17.7 Automatic tripping of a manually reset protector shall be independent of the position or manipulation of the reset handle or button. That is:~~

- a) The bimetal shall open the circuit regardless of the handle or button position or manipulation; and
- b) Manipulation of the handle or button shall not reset the protector until the bimetal closes the circuit again.

~~17.8 The construction of a protector shall be such that it reduces the risk of substitution of a protector or thermal element of higher calibration than the protector or element originally provided.~~

~~17.9 A protector shall be mounted in place and shall employ materials of such strength, rigidity, and insulating properties as to be capable of withstanding the stresses to which there is a risk of it being subjected.~~

18 Limited Short Circuit Test

~~18.1 Three samples of a motor protector shall be subjected to a short-circuit current as determined by Table 18.1.~~

Exception: Protectors connected in the common point of a wye-connected polyphase motor are not subjected to this test.

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