

SUMMARY OF TOPICS

The following is being recirculated:

1. Proposed Standard for Adjustable Speed Electrical Power Drive Systems; Part 5-1: Safety Requirements – Electrical, Thermal and Energy, UL 61800-5-1

COMMENTS DUE: October 3, 2011

For your convenience in review, proposed additions to the previously proposed requirements dated 2011-06-24 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposed Standard for Adjustable Speed Electrical Power Drive Systems; Part 5-1: Safety Requirements – Electrical, Thermal and Energy, UL 61800-5-1

RATIONALE

Responses to comments have been posted within the Subject 6180 Recirculation Work Area dated 2011-06-24.

PROPOSAL

4.8DV.1.4 In determining compliance with ~~18.3~~ 4.8DV.1.3, measurements shall be made to the center of the handle grip with the handle in the highest possible position. Where the handle grip is not clearly defined, it shall be considered to be at a point 3 inches (76 mm) in from the end of the handle.

5.2.3.6DV.1.6.2 A drive having short circuit ratings in excess of the levels specified in Table 4.3.9DV.1 shall additionally be tested in accordance with Section 5.2.3.6.4, Breakdown of Components Test, with the following modifications:

- a) The requirements of Section 5.2.3.6.4 are amended by (a) – (e) (d) of 5.2.3.6DV.1.5.1.
- b) The branch-circuit protective device(s) shall also comply with 5.2.3.6.2.1DV.5.5 (a) – (h).
- c) The drive shall be tested on a circuit that is calibrated as described in 5.2.3.6.2.1DV.3, Calibration of Test Circuits. The available short circuit current of the test circuit shall be the maximum value for which the drive is rated. The high fault current values for which a drive is able to be tested are not required to be one of the same values detailed in Table 4.3.9DV.1.

6.3.7DV.2.2.1 For group installation, power conversion equipment as described in 5.2.3.6DV.1.1.2 shall be marked with the following or the equivalent:

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a) When tested using both fuses and circuit breakers of the maximum allowable size: "Suitable for motor group installation on a circuit capable of delivering not more than ____ rms symmetrical amperes, ____ V max." When tested with other than Class H or K5 fuses, the marking shall additionally state: "When protected by Class ____ fuses." When specified for a high fault short circuit rating, the marking shall additionally state: "Class ____ fuses" or "A circuit breaker having an interrupting rating not less than ____rms symmetrical amperes, ____ V maximum;"

b) When tested using only fuses rated at the maximum size specified in 5.2.3.6DV.1.1.3 (b), the marking shall additionally state: ~~"w~~When protected by (A) fuses" or, when tested with other than Class H or K5 fuses, "When protected by Class ____ fuses." When specified for a high fault short circuit rating, "When protected by Class ____ fuses;"

c) When tested using branch circuit protective devices rated less than the maximum size specified in 5.2.3.6DV.1.1.3 (b), the marking shall additionally state: "when protected by (B) (A) with a maximum rating of (B) (C)." where:

~~A) "Fuses" or, when tested with other than Class H or K5 fuses, "Class ____ fuses." When specified for a high fault short circuit rating, "Class ____ fuses;"~~

BA) The type of overcurrent protective devices, either "fuses" or "a circuit breaker." When tested with other than Class H or K5 fuses, "Class ____ fuses." When specified for a high fault short circuit rating, "Class ____ fuses" or "A circuit breaker having an interrupting rating not less than ____rms symmetrical amperes, ____ V maximum;"

CB) The maximum ampere rating of the overcurrent protective device used for the tests in 5.2.3.6DV.1.3 and Section 5.2.3.6DV.1.5, Breakdown of Components Test – Group Installation for Standard Fault Currents, or 5.2.3.6DV.1.4 and Section 5.2.3.6DV.1.6, Breakdown of Components Test – Group Installation for High Fault Currents.

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