

FEDERAL SPECIFICATION

TRANSFORMER, POWER, DISTRIBUTION

This amendment, which forms a part of Federal Specification W-T-631c, dated June 4, 1964, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

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Paragraph 3.1: Delete in its entirety and substitute:

3.1 General. Except as otherwise provided herein, transformers furnished under this specification shall conform to the applicable requirements of ASA C57.12.00 and C57.12.20.

Paragraph 3.2: Delete in its entirety and substitute:

3.2 Continuous rating temperature rise.

3.2.1 Limits of observable temperature rise. The temperature rise above the ambient temperature of overhead distribution transformers or parts thereof, when tested in accordance with their ratings, shall not exceed 65°C.

3.2.2 Limits of hottest-spot temperature rise. Overhead distribution transformers shall be so designed that the hottest-spot conductor temperature rise above the ambient temperature shall not exceed 80°C.

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Paragraph 3.6: Delete in its entirety and substitute:

3.6 Insulation materials.

3.6.1 Solid. If class A materials are utilized in the insulation system of the transformers, these materials shall be thermally stabilized, exhibiting, by experience or accepted tests, a comparable thermal life at 120°C. to that of unstabilized class A materials at 105°C.

3.6.2 Liquid. The transformers shall be delivered with the proper quantity of insulating liquid contained therein.

Paragraphs 3.6.1 and 3.6.2: Renumber to "3.6.2.1" and "3.6.2.2", respectively.

Paragraph 3.7.1, line 3: Change "in" to "and".

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After paragraph 4.3.3, add the following:

4.3.3.1 Reference temperature for losses, impedance, and efficiencies. The reference temperature to which losses, impedances, and efficiencies are corrected shall be 85°C.

4.3.3.2 Determination of transformer regulation. The regulation of a transformer shall be determined by calculation based on the measured values of impedance volts and impedance watts, corrected to a temperature of 85°C.

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Paragraph 6.1, line 19: Change "(3.6.1)" to "(3.6.2.1)."

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Delete in its entirety and substitute:

MILITARY INTERESTS:

CUSTODIANS:

Army—MO (ERDL)

Navy—YD

Air Force—85

Review Interest:

Army—MO

Navy—YD

Air Force—85

User Interest:

Army—EL, MI, CE

Navy—MC

Air Force—11

