

C57.19.100 Proposed Changes:

The current guide references C57.19.00-1991 which includes breaker bushings. Propose to reference C57.19.00 without a date which would be the current standard and reference the older standard for breaker bushings

To address the conflict between C57.19.00-2004 and C57.19.100-2012 I propose the following changes in red

5.1 General

The temperature limits of bushings applied to power transformers can be exceeded by the transfer of heat from transformer components and accessories. If the thermal coordination of these sources is not correct, the bushing hottest-spot temperature may exceed 105 °C. The result may be accelerated aging. An additional concern is that the higher temperatures may deteriorate sealing gaskets. Potential sources of heat transferred to the bushing include the following:

- a) Operation of bushings in transformers with top oil temperature rise greater than 65 °C.
- b) Increased transfer of heat into the bushing from top oil in transformers with conservator oil preservation systems.
- c) Improper thermal coordination of isolated-phase bus equipment (see clause 7).
- d) Stray flux heating in the flange and other metallic bushing parts.

Delete section 5.2 and add wording in the introduction to explain that bushings manufactured to standards before IEEE C57.19.00-2004 may not be suitable for 65 °C rise transformer and reference C57.19.100-2012 for guidance.

New section on Materials and temperature ratings of gaskets – need input or volunteers to address this

New section on Current ratings for terminals- need input or volunteers to address this

New section on Test connections and their weight – need input or volunteers to address this

Section 7 - Special considerations for bushings used in iso-phase bus – need input or volunteers to address this.