

**TEST PROCEDURES OF TRANSFORMER TRANSFORMER  
TRANSFORMER THREE DISTRIBUTIONS IN BRIEF  
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**ABSTRACT**

Transformer is an equipment that can convert electric power from a voltage level to another voltage level. This transformer is certainly expected to work on the desired performance. Therefore, before the transformer can be used in an electric power system, it is necessary to test the distribution transformer. Transformer testing is carried out according to SPLN D3.002-1: 2007 through the test described in IEC 60076, namely: One Isolation Resistance Test with an isolation resistance value of not less than 2 G $\Omega$ , Short Circuit Test with peak test current  $I_{pk}$  135 A  $\pm$  5% and  $I_{rms}$  71 A  $\pm$  10% current, Impulse Testing with face time waveforms ( $T_1 = 0.84 \mu s - 1.56 \mu s$ ) and tail time ( $T_2 = 40 \mu s - 60 \mu s$ ), with an impulse test voltage of 125 kV, which is intended to determine the strength of the isolation of the transformer. The test results will later determine the good or bad of the transformer. After being declared passed the test, it will get certification from the certification center that the transformer is suitable for use in the distribution network system.

Keywords: Transformer Distribution, SPLN D3.002-1: 2007