

Title (en)
ELECTRICAL TRANSFORMER WITH CONTROLLED DISTRIBUTION OF LEAKAGE INDUCTANCE

Title (de)
ELEKTRISCHER TRANSFORMATOR MIT EINER KONTROLLIERTEN VERTEILUNG DER STREUINDUKTIVITÄT

Title (fr)
TRANSFORMATEUR ELECTRIQUE AYANT UNE REPARTITION D'INDUCTANCE DE FUITE CONTROLEE

Publication
EP 3758031 A1 20201230 (FR)

Application
EP 20176687 A 20200527

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FR 1907024 A 20190627

Abstract (en)
[origin: CN112151250A] The invention relates to an electrical transformer and a method for manufacturing a transformer. The electrical transformer comprises a magnetic core and a primary coil forming a primary circuit and a secondary coil forming a secondary circuit. The electrical transformer is configured such that: a first inductance value L_{1so} is measured on the primary circuit in the event that the secondary circuit is open, and a second inductance value L_{2so} is measured on the secondary circuit in the event that the secondary circuit is open; a second inductance value L_{1ss} is measured on the primary circuit in the event of a short circuit of the secondary circuit, and a third inductance value L_{2po} is measured on the secondary circuit in the event of an open circuit of the primary circuit, such that: wherein A is a real number greater than 10.

Abstract (fr)
La présente invention vise un transformateur électrique comprenant un noyau magnétique et un bobinage primaire, formant un circuit primaire, et un bobinage secondaire, formant un circuit secondaire, transformateur électrique configuré de sorte que : une première valeur L_{1so} d'inductance mesurée au circuit primaire avec le circuit secondaire ouvert, une deuxième valeur L_{1ss} d'inductance mesurée au circuit primaire avec le circuit secondaire court-circuité, et une troisième valeur L_{2po} d'inductance mesurée au circuit secondaire avec le circuit primaire ouvert, sont telles que : $L_{2PO} - 1/n L_{LM} < A \cdot L_{1SO} - L_{LM}$ avec $LM = L_{1SO} - L_{1SS} \times L_{1SO}$. N2 où A est un nombre réel supérieur à 10.

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Citation (search report)
• [XY] GB 2489532 A 20121003 - REDISEM LTD [CN]
• [Y] JP H0567536 A 19930319 - YOKOGAWA ELECTRIC CORP

Cited by
CN114823092A

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