Title (en)

METHOD AND APPARATUS FOR SUPPRESSING AN INRUSH CURRENT OF A TRANS FORMER

Title (de)

VERFAHREN UND VORRICHRTUNG ZUR UNTERDRÜCKUNG EINES EINSCHALTSTROMS EINES TRANSFORMATORS

Title (fr)

PROCÉDÉ ET APPAREIL PERMETTANT DE SUPPRIMER LE COURANT D'APPEL D'UN TRANSFORMATEUR

Publication

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Application

EP 10848150 A 20100322

Priority

CN 2010000344 W 20100322

Abstract (en)

[origin: WO2011116488A1] The invention relates to a method and apparatus for suppressing an inrush current of a three-phase transformer (15) connected to a three-phase power supply via a triple- pole circuit breaker (20), the transformer (15) being connected and disconnected from the power supply by closing and opening the circuit breaker (20), wherein the method comprises monitoring a property of at least two phases of the transformer (15), determining a residual flux pattern after the circuit breaker (20) is opened, computing an equivalent opening moment (60) of the circuit breaker (20) using the property monitored, wherein at the equivalent opening moment (60) of the circuit breaker (20), the phases of the transformer (15) are de-energized simultaneously, deriving a closing time window (64) for closing the circuit breaker (20) on the basis of the equivalent opening moment (60), and closing the poles of the circuit breaker (20) simultaneously within the closing time window (64).

IPC 8 full level

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CPC (source: EP)

H02H 9/002 (2013.01); H02H 7/04 (2013.01)

Citation (search report)

- [XI] WO 02095893 A1 20021128 - ABB OY [FI], et al
- [XA] EP 2091058 A1 20090819 - TOSHIBA KK [JP]
- See references of WO 2011116488A1

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