Title (en)

METHOD AND DEVICE FOR DETERMINING THE REMAINING SERVICE LIFE OF A SWITCHGEAR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER RESTLEBENSDAUER EINES SCHALTGERÄTES

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER LA DUREE DE VIE RESIDUELLE D'UN APPAREIL DE COMMUTATION

Publication

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Application

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Abstract (en)

[origin: WO2004057634A1] In a switchgear, the switching contacts of a switchgear mechanism (100) are set to the on position or the off position, wherefore pressure is generated by the contact force spring in order to apply the pre-determined contact force in the on position. The service life of one such switchgear is determined by the erosion of switching contacts and by the mechanical wear of the switchgear mechanism. It is known that the switching contact erosion can be determined by detecting the change in pressure in the drive of the switchgear, According to prior art, the change in pressure is always measured during the switching-off process. According to the invention, the pressure change is detected during the switching-on process, and especially the mechanical wear of the switchgear can be simultaneously determined. The inventive device comprises a magnetic drive (100) consisting of an armature (110), a yoke (101) and magnetising coils (102, 102'), a position transmitter (120) being coupled to the magnetic armature (110) in a positively engaging manner.

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