

**A METHOD AND A SYSTEM OF DETECTING WINDING FAULT UNDER ONLINE
OPERATION OF AN ELECTRICAL MACHINE**

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ABSTRACT

A method and a system of detecting winding fault during online operation of an electrical machine, said method comprising, acquiring a set of signals from the machine over a period, said set of signals comprising two or more magnetic flux signals, each flux signal
10 obtained from a respective flux sensor positioned on the external surface of the machine; extracting an internal winding fault indicator from the set of signals; comparing the internal winding fault indicator with a baseline indicator; and determining the internal winding fault when the internal winding fault indicator deviates from the baseline indicator by a threshold.

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FIG. 1

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