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ABSTRACT

A rotary electric machine includes a bearing that holds a rotation shaft and is capable of rotating the rotation shaft, a housing accommodating the bearing, a rotor that is fixed to the rotation shaft and rotates, and a stator that is fixed to the housing. The stator includes a stator core including a tooth portion protruding toward the rotor and extending along the rotation shaft, a winding wound around the stator core, and magnetic detectors attached to an end portion of the stator core in a direction in which the rotation shaft extends while being separated from each other in a rotation direction of the rotation shaft.

