

**TITLE OF INVENTION: DRIVING METHOD, APPARATUS, AND CIRCUIT FOR BRUSHLESS
MOTOR, AND DEVICE**

ABSTRACT

The present disclosure relates to the technical field of motor driving, and provides a driving method, apparatus and circuit for a brushless motor, and a device. The brushless motor comprises: a stator core, comprising Z tooth sets arranged at intervals in the circumferential direction; a rotor, comprising a magnetic ring with a pole number of P; and X-phase wires wound on the tooth sets to form coils, wherein $X \geq 2$, and $Z=P \cdot X$. In wires of the same phase, coils on two adjacent tooth sets have opposite winding directions in the circumferential directions of the tooth sets and are spaced apart by X-1 tooth sets. The driving method comprises: by means of respectively independent first ends and second ends of N-phase wires, providing N driving signals having a periodic change to the N-phase wires, wherein $2 \leq N \leq X$, waveforms of each driving signal in a period comprise a waveform having an intensity greater than 0 and a waveform having an intensity less than 0, and within a time period when the intensity of any one driving signal is not 0 in the period, the intensity of other driving signals among the N driving signals is 0. Therefore, driving control of the brushless motor can be simplified.

FIG. 6A