

Abstract

The present invention relates to an elevator, characterized by comprising: a door control motor, which drives opening and closing of the elevator door and has star-connected coils; and a door control board, which controls the driving of the door control motor and has a temperature-rise monitoring mechanism for monitoring a coil temperature of the door control motor, the temperature-rise monitoring mechanism comprising a coil initial temperature acquiring unit, a coil initial resistance value calculation unit, a voltage measuring unit, a current measuring unit, a coil real-time resistance value calculation unit, and a temperature rise calculation unit, which calculates a temperature rise value of the coils according to the coil initial temperature, the coil initial resistance value and the coil real-time resistance value by using a resistance method. The coil temperature of the door control motor is monitored in real time according to the temperature rise value.

The most illustrative drawing to accompany the abstract: Figure 2