

ELEVATOR ABNORMALITY DETECTION DEVICE AND ELEVATOR ABNORMALITY DETECTION METHOD

ABSTRACT

It is an object to identify a cause of damage of a water-cooled cooling system used in an elevator device. An elevator abnormality detection device according to the embodiments detects an abnormality in a water-cooled cooling system that cools a power supply that supplies power to a motor that drives ascent and descent of a cage. The elevator abnormality detection device according to the embodiments includes a temperature sensor, a storage unit, and an abnormality detecting unit. The temperature sensor measures a temperature of a heating element constituting the power supply when the cage performs an ascent or descent operation. The storage unit stores the temperature of the heating element measured with the temperature sensor at a predetermined timing from the ascent or descent start to the ascent or descent stop of the cage when components constituting the water-cooled cooling system are normal as a reference value under normal conditions. The abnormality detecting unit compares the reference value with the temperature of the heating element measured each time the cage ascends or descends and detects the abnormality in the water-cooled cooling system when a difference between the two temperatures exceeds a predetermined value.

[Selected Drawing] Fig. 6