

ABSTRACT OF THE DISCLOSURE

VELOCITY CONTROL APPARATUS FOR ELEVATOR SYSTEM

A velocity control apparatus for an elevator system includes a plurality of current detectors for detecting three phase currents i_a , i_b , i_c which flow in an induction motor, and a current compensator for generating compensation currents i_a' , i_b' , i_c' wherein a zero phase current i_0 is offset from the detected three phase currents i_a , i_b , i_c . The apparatus obtains the zero phase current by detecting the three phase input currents of the induction motor, and the parameter of the induction motor becomes balanced in three phases, thereby preventing a torque ripple of the input frequency from occurring and improving a comfortableness of passengers aboard an elevator car.

(Fig. 3)