

ABSTRACT

The present invention provides a rotary machine integral with a control device, which is effective to reduce the cost of manufacture of a variable-speed pump or the like, and allows control programs to be easily established at the installation site. The present invention also provides an inverter device suitable for the above mentioned rotary machine.

A rotary machine and control device combination comprises a rotary machine such as a pump, a fan, or the like and a control device integral therewith. The rotary machine has an inverter device (20) for operating the rotary machine, a memory (11) for storing a control program (11A) for the inverter device and a program (11B) for controlling operation of the rotary machine, a CPU (12) operable according to the programs stored in the memory (11), an input and output unit (15) connected to sensors and switches positioned in said rotary machine, one or more serial ports (14) connected to the CPU (12), and means for rewriting contents stored in the memory (11). The memory stores a plurality of control programs, there is a means for externally selecting a control program to be used among the stored control programs. The inverter device has a circuit board with circuit components thereon are encased by molded resin, with only input and output lines and interface terminals being disposed outside of the molded resin.