

Powtran PI8100



Features

Novel structure design; Complete upgrade of the software; Optimized production technique; Mature test equipment?

Applications

mechanics, electronics, metallurgy, mining, petrochemical, transportation, building materials, municipal, metal processing, textile, printing and dyeing, paper making, Injection machine, central air conditioning, numerical control machine tool, air-compressor, fan and pump, blower, air conditioner for large buildings; wastewater treatment system; water supply system for large buildings; public water supply system and other industries and fields.

Product orientation:

Based on the latest motion control theory and technological achievement. PI8000/8100 is brand new sensorless vector control high performance frequency inverter series of POWTRAN Technology. It achieves perfect motor control via servo function, and offers comprehensive drive solution.

Technical feature:

1. Sensorless Vector control frequency inverter with high performance, excellent quality and low pollution
2. It achieves quick-response and precise control by decoupling control of motor magnetic flux current and torque current, which makes the speed adjustment and torque control runs at a high degree of accuracy and wide range.
3. Brand new hardware platform, advanced processing technique and perfect testing equipment, which guarantees the applicable reliability

Function Introduction:

Central control module based on DSP, realizes high-speed and high performance control. Integrate V/F control, V/F+PG control,

vector control. Automatic recognize the parameter of the motor! Auto-adjust to the best control mode!
Dead zone compensate function and Automatic slip compensate, 180% torque output can come out below 0.5HZ frequency.
Eight switch inputs, three analog inputs, two analog output, 0-10V or 0-20mA from inside the scope of the definition signal!
Support feedback signal: 0-10v, 1-5v, 0-20mA, 4-20mA
Simple PLC Function, at most 15 segments speed control and 8 segments acceleration control can be realized.
Humanization display menu, highlighted Chinese OLED+LED, simultaneous display 3 groups of state parameters.
Keyboard is hot-pluggable and can restore or copy 4 groups of running parameter programs.
Powerful communication function which can support standard RS485 and Modbus and provide remote keyboard control .
Built-in PID self-adjusting
Rotate speed tracking start and power-off reset function
High effective function on default record and recheck, easy trouble -shooting.
Unique EMC design minimizes pollute to electricity resource.
Entire coating can work in various of severe environment.
Simplicity and fashionable design with industrialize features
Ratings:
Power rating : 0.4~630.kw
Frequency scope: 0.00~400.00Hz
Voltage grade: 220V/380V/460V/575V/660V/1140V.

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"One key to Shuttle," keyboard, swirling free, two-way custom buttons, with the demand for expansion;
Low-frequency large torque, 0.3Hz with the 180% torque output;
Intelligent design, simple PLC + program can copy and download, the Electrical motor parameters ie able to fulfill the smart identification;
Powerful communication function, RS485/MODBUS standard interfaces.