CHV100 series Close Loop Vector Control Inverter

The new hardware platform: Dual-CPU control solution, ARM(32bit)+DSP(16bit) The current vector control: Advanced field-oriented vector control algorithm accomplishes the full decoupling control to bring out authentic current vector control. The control mode is as following: High performance vector control (VC), sensor less vector control (SVC), torque control (TC). Modularization design: CHV100 supplies open the 2nd develop platform according to different characters of industries. There are some kinds of dedicated expansion card to fulfill assorted requirements.

Technical Data

- **Control mode: Sensorless vector control, Vector control, V/F control**
- **Startup Torque: 150% of rated torque at 0.5Hz (SVC); 180% of rated torque at 0Hz(VC). Accuracy of torque control is up to ±5%**
- **Vector control combined torque control mode for tension control.**
- **Control precision : ±0.1%(VC); Speed regulation ratio:1:1000(VC).**
- **Built-in DC reactor (from 18.5kW to 90 kW) to improve power factor and efficiency.**
- **Builtin breaking units (from 1.5kW to 15kW). If needs to stop rapidly, please connect the brake resistance directly.**
- **Some kinds of expansion cards for plentiful professional solutions: Injection molding card, I/O extension card, communication card and PG card.**
- **Simple PLC or Multi steps Speed Control: 16 steps speed can be set. PID control, traverse control.**
- **Offer 10 digital inputs, 4 analog inputs, 3 relay outputs, 2 analog outputs.**
- **Speed trace function: smoothly start running motor.**
- **LED or LCD is optional.**