



CFW-09 Vectrue Inverter

The WEG CFW-09 Series of Variable Frequency Drives incorporate the world's most advanced technology in drives for three-phase AC induction motors. The **Vectrue Technology™** represents a significant advancement, allowing this new generation of WEG VFD's to combine V / F, Sensorless Vector and Closed Loop Vector (with encoder) control techniques all in one product. An innovation was also introduced to simplify applications that require braking torque. A new feature named **Optimal Braking™** eliminates the need for the dynamic braking resistor in some applications allowing a simpler, more compact and economic solution.

Applications

- Pumps
- Fans / Blowers
- Conveyors
- Compressors
- Agitators and Mixers
- Extruders
- Grizzly Feeders
- Centrifuges
- Cranes and Hoists
- Rollout Tables
- Presses
- Saws

Optional Features

- Closed loop vector control
- Remote keypad with Copy Function
- RS-232 or RS-485 Serial Interface
- On/Off line PC programming with Superdrive
- Fieldbus Comm: Profibus DP, DeviceNet or Modbus RTU
- Encoder buffered output
- Additional digital and analog I/O

Standard Features

- V/Hz or Sensorless Vector Control via parameter selection
- Self Tuning to motor parameters
- NEMA 1 Enclosure up to 200HP
- IP20 "Finger Safe" Enclosure from 250 to 500HP
- 200-240V or 380-480V input voltage
- Single or Three-phase input voltage up to 3HP/230V
- 150% current overload capacity
- DC bus connections accessible
- Detachable smart keypad with dual display and copy function
- 32 bit RISC microprocessor controlled PWM output
- 1.25 / 2.5 / 5 / 10 kHz adjustable switching frequency
- Six isolated programmable digital inputs
- Three programmable relay outputs (250Vac / 1A)
- Two isolated programmable analog inputs
- Two programmable analog outputs
- Protective features: Overcurrent, motor overload, drive overtemperature, output phase-to-phase and phase-to-ground short circuit, DC bus over and under voltage, power supply under voltage and phase loss and external fault
- Control features: Linear and "S" ramp acceleration and deceleration, local/remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, adjustable V/Hz profile, maximum and minimum adjustable motor speed limits, three skip frequencies, adjustable output current limit, JOG, ride-thru, flying start and PID regulator
- Display readings: Motor speed, frequency, voltage, current and torque, output power (kW), last four faults, drive status, digital and analog I/O status, hours powered and hours running
- Ambient: 104°F (40°C), 3300 ft (1000m) altitude, 90% humidity, non- condensing

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