



Delta Vector Control Drive C2000 Series

Robust. Versatile. Modular.

- Field oriented control drive
- Power range: 1 HP - 840 HP (0.75 kW - 630 kW)
230 V_{AC}, 480 V_{AC}, 600 V_{AC} and 690 V_{AC}, 3 Phase
- Volts/frequency, sensor-less vector and closed-loop field oriented and torque control with auto-tuning to improve motor performance
- Built-in DC choke to suppress harmonics (Frame D and above)
- Enhanced conformal coating on printed circuit boards for durability (Class 3C2 of IEC60721-3-3)
- Built-in MODBUS communications. Three option card slots
- Communication options for CANopen, **DeviceNet**, **PROFINET** DP, MODBUS TCP, **EtherNet/IP** and **EtherCAT**
- Add extended I/O, encoder, resolver, relay cards

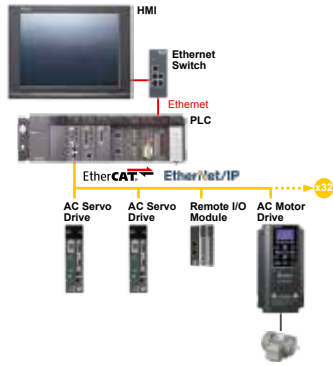


www.delta-americas.com/ia/C2000



Control Architecture Options

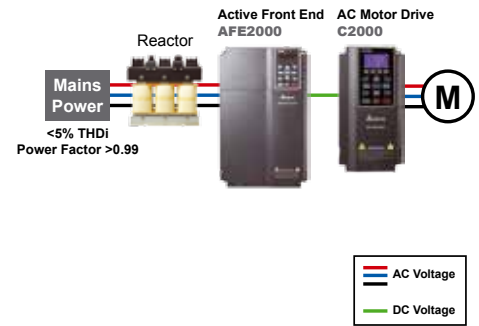
Network Centralized Control



Stand-alone Distributed Control



Power Quality Solution



Electrical Specifications		Application Features
Power Range	1 HP - 125 HP (0.75 kW - 90 kW) at 230 V _{AC} 1 HP - 600 HP (0.75 kW - 450 kW) at 480 V _{AC} 2 HP - 500 HP (1.5 kW - 15 kW) at 600 V _{AC} 25 HP - 850 HP (18.5 kW - 630 kW) at 690 V _{AC}	<ul style="list-style-type: none"> Modular design for easy maintenance and extensions Duty rating: normal duty and heavy duty, 230 V and 480 V Light duty, normal duty and heavy duty, 600 V and 690 V Altitude rating up to 3,000 meters with de-rating Up to 50 °C operating temperature Programmable and removable LCD keypad with real time clock and calendar function Single phase power Input with UL certification with de-rating Over-flux breaking control to shorten deceleration time Built-in PLC with 10,000 steps programming capability Active Front End option, up to 100 HP, for 4 quadrant load regeneration, low input harmonics < 5% THDi and increased power factor > 99% High speed operation up to 599 Hz Safe-torque-off built-in (SIL2) Auto energy savings with sleep/wake function Open loop torque control Extensions for external input/output, relays, 24 V external power, encoder pulse generator cards for line Driver, open collector, resolver and UVW functions Controls asynchronous(induction) and permanent magnet motors
Input Voltage	200 - 230 V _{AC} , 380 - 480 V _{AC} , 525 - 600 V _{AC} , 525 - 690 V _{AC} (-15% +10%)	
Power Factor	Greater than 0.98	
Input Frequency	50 Hz, 60 Hz ±5%	
Output Voltage	Maximum output voltage equal to input voltage, three phase	
Output Frequency Range	0.1 Hz - 599.00 Hz	
Current Limit	150% of rated current: 60 seconds every 5 minutes 180% of rated current: 3 seconds every 30 seconds	
Environment Specifications		
Operating Temperature	14 °F to 122 °F (-10 °C to 50 °C)	
Storage Temperature	-13 °F to 158 °F (-25 °C to 70 °C)	
Humidity	95% maximum; Non-condensation, non-frost, non-conductive environment	
Altitude	3,280 ft.(1,000 meters), up to 3,000 meters with de-rating	
Enclosure	NEMA1 IP 20	
Codes and Standards	UL, cUL, CE	

Ordering Information

