

Delta MVD 1000 Series

Adaptable for motors 3.3-11KV
Medium Voltage Drive

Delta MVD-1000 is a reliable, high-performance medium voltage drive that provides greater energy-savings as well as increased productivity for a broad range of applications in segments such as power generation, oil & gas, mining, metals, cement, public facilities.

Leading Technology

- Multi-pulse input rectification reduces input current harmonic distortion, meeting IEEE 519-1992.
- Advanced drive concept provides multilevel output voltages and enhanced motor operation.
- Enhanced input power quality ensures input power factor above 96% in the speed control range.

Enhanced Process & Quality Control

- Built-in proportional integral differential (PID) controller enhances control of process variables such as flow and pressure.
- Ride through and flying start features ensure a more continuous process in spite of input voltage dips.
- Easily integrated with customer's upper level control.

Lower Cost of Ownership

- Reduced power loss maintains overall efficiency above 96% and minimizes operating costs over the drive's life cycle.
- Optimized pump and fan operation ensures significant energy savings and shortens the return on investment.



Power generation



Oil & Gas



Mining



Cement



Public facilities



Metallurgy



Delta MVD 1000 Series

Adaptable for motors 3.3-11KV
Medium Voltage Drive

Specifications

Input Frequency	50 Hz / 60 Hz (-2% ~ +2%)
Pulse Width Modulation	SVPWM
Control Power	3 phase 380 V or AC220 V; 2.5 kVA
Input Power Factor	0.96 at full load and speed
Efficiency	> 96.5% at rated load and speed
Output Frequency	0-75 Hz
Frequency Setting Resolution	0.01 Hz
Over-current Protection	200% (can be customized)
Overload Ability	120% of rated current for 1 min every 10 min 150% shut down immediately
Current Limit	10-150% programmable
Analog Inputs	2 channels, 4-20 mA
Analog Outputs	4 channels, 4-20 mA
Communication	Standard: Modbus RTU / Options: Profibus DP & Ethernet/IP
Acceleration/ Deceleration Time	0-3000 seconds
Digital Inputs/Outputs	10 / 8 channels (extensible)
Operating Temperature	-5~45°C, normal operation / 45~55°C, derating operation
Storage Temperature	-40~70°C
Cooling	Forced air cooling
Humidity	< 95% with no condensation
Altitude	< 1000m, normal operation / 1000-2000 m, derating operation
Dust	Non-conductive, Non-corrosive, < 6.5 mg/m3
IP Class	IP20, IP21



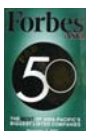
User-friendly Interface



High efficiency power cell



Advanced testing



2007~ 2008 Forbes Asia's Fabulous 50



2009 Frost & Sullivan Green Excellence Award for Corporate Leadership



Delta's Manufacturing System is Certified by ISO 9001 and ISO 14001 Standards



IECQ Certificate of Hazardous Substance Process Management



For more product information and sales inquiries,
Please contact mvd@delta.com.tw

www.delta.com.tw/mvd