

DELTA · VP3000 SERIES VFD (3-PHASE INPUT) · DATASHEET

Delta VFD310VP43AFTCA VP3000 Series 160kW VFD

Model VFD310VP43AFTCA · Variable Frequency Drive (VFD)



460V 3-Phase input, 160KW/220HP, 3-Phase output.

Key features

- Rated motor output 160 kW / 215 HP

Price and availability

Ask Industrial Supply Syndicate for the current price, stock and a quotation with GST and freight. Call +91 89610 89611 or WhatsApp +91 89610 89611.

Specifications

Power Output	
Max. Applicable Motor	160 kW (215 HP)
Continuous Rated Output Current	310 A
Light-Load Current (110%, 1 min/5 min)	295 A
Max. Output Current (2 s start)	418 A
Max. Output Frequency	599 Hz
Input	
Rated Input Voltage / Freq.	3-Phase 380–480 V AC (-15% ~ +10%), 50/60 Hz
Rated Input Current	310 A
Power Supply Capacity	247 kVA
Displacement Power Factor (cosφ)	0.98
Control	
Control Mode	PWM
Control Methods	V/F, SVC, FOC (sensorless), SynRM (sensorless)
Motor Types	Induction (IM), Permanent Magnet (PM), SynRM
Duty Type	Variable torque (open-loop)
Starting Torque	150%+ at 0.5 Hz
Overload Tolerance	110% rated for 1 min every 5 min
Energy Saving	Automatic Energy Saving (AES)

Control (continued)

Built-in PLC	Yes (20K steps)
Drive Efficiency	~98% (frame G and above)
Harmonics (lower-harmonic models)	THDi as low as 35% (EN 61000-3-12)

Communication

Built-in	Modbus & BACnet MS/TP
Optional	Modbus TCP, BACnet IP, EtherNet/IP, PROFIBUS DP, PROFINET, DeviceNet, CANopen
Keypad	LED / LCD graphic / LCD with Bluetooth & USB (optional)

Safety & Build

Safe Torque Off (STO)	SIL 3 — ISO 13849-1 PL e, EN 61508 SIL 3
Predictive Maintenance (PdM)	Power module, capacitor & cooling-fan life monitoring
Conformal Coating	IEC 60721-3-3 class 3C3
Built-in EMC Filter	Available — EN 61800-3 C2 / C3
Over-current / Over-voltage	195% rated; DC-bus trip > 820 V
Certifications	CE, UL, RCM, REACH, RoHS

Physical

Frame Size	Frame I
Enclosure	Wall-mount (IP20 UL Open Type / UL Type 1)
Dimensions W × H (mm)	294 × 984
Operating Temperature	-20 to +50°C (UL Type 1); up to +60°C (UL Open / chassis)
Altitude	0–1000 m (derate above 1000 m)

Typical applications

- Large industrial pumping stations
- Centrifugal compressors
- Steel mill auxiliary drives
- Mining conveyors and crushers
- Large HVAC chillers and cooling towers
- Paper and pulp mill machinery
- Cement and quarry equipment
- Marine auxiliary drives

Order or ask for a quotation

Industrial Supply Syndicate supplies the Delta VFD310VP43AFTCA across India with a GST invoice. Tell us the quantity and delivery location; we reply with a quotation or proforma invoice including freight.

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