

DELTA · MH300 SERIES VFD (3-PHASE INPUT) · DATASHEET

Delta VFD45AMH43ANSAA MH300 Series 22kW VFD

Model VFD45AMH43ANSAA · Variable Frequency Drive (VFD)



460V 3-Phase input, 22KW/30HP, 3-Phase output.

Key features

- Rated motor output 22 kW / 30 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	22 kW (30 HP)
Rated Output Current (Heavy Duty)	45.0 A
Rated Output Current (Normal Duty)	49.0 A
Max. Output Frequency	599 Hz
Carrier Frequency	2–15 kHz (default 4 kHz)

Input

Rated Input Voltage / Freq.	3-Phase 380–480 V AC (-15% ~ +10%), 50/60 Hz
Input Voltage Range	323–528 V
Input Frequency Range	47–63 Hz

Control

Control Methods	V/F, SVC, FOC, V/F+PG, FOC+PG, TQC+PG
Motor Types	Induction (IM) & Permanent Magnet (IPM/SPM)
Starting Torque	Up to 200% (0.5 Hz sensorless / 0 Hz with PG)
Speed Range	Up to 1:1000 (FOC+PG)
Overload (Normal Duty)	120% / 60 s; 150% / 3 s
Overload (Heavy Duty)	150% / 60 s; 200% / 3 s
Built-in PLC	Yes (5K steps)
Tension Control	Built-in (coil-diameter, dual-PID, taper)

Communication

Built-in	RS-485 Modbus & CANopen
Optional Fieldbus	PROFIBUS DP, DeviceNet, Modbus TCP, EtherNet/IP, EtherCAT, PROFINET
Option Slots	2 (PG / I/O / relay / comms / 24 V power)

Safety & Build

Safe Torque Off (STO)	Integrated — ISO 13849-1 PL d, EN 61508 SIL 2
Brake Chopper	Built-in
DC Reactor	Optional (built-in on largest frames)
Conformal Coating	100% PCB, IEC 60721-3-3 class 3C2
Enclosure / IP Rating	IP20 standard; IP40 available (E-variant)
Built-in EMC Filter	Available (F-variant), Class A / C2
Protection	Over-current, over-voltage, over-temp, phase-loss, overload, ground fault

Physical

Frame Size	Frame F
Dimensions W × H (mm)	175 × 300
Cooling Method	Fan cooling
Operating Temperature	-20 to +50°C (IP20); -20 to +40°C (IP40)
Keypad	Removable, with built-in USB port
Certifications	CE, RCM, REACH, RoHS, TUV, UL

Typical applications

- Large centrifugal and submersible pumps
- HVAC air-handling units and large blowers
- Screw and reciprocating air compressors
- Bulk material-handling conveyors
- Crushers, mills and grinders
- Cooling-tower and induced-draft fans
- Extruders and process lines
- Heavy mixers and agitators

Order or ask for a quotation

Industrial Supply Syndicate supplies the Delta VFD45AMH43ANSAA 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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