

# VARIDYNE<sup>®</sup> 2

## SENSORLESS VECTOR AC DRIVES

For pumps, conveyors, blowers, fans, mixers and more.

**HP** – 1/3 to 200

**Phase** – Single and Three Phase input models

**Voltage** – 115, 230, 380, 460, 575 and 690 volts

**Input Frequency** – 50/60 Hz

**Enclosure** – IP20, NEMA-1<sup>†</sup>

### FEATURES & BENEFITS

- Easy to set up — all the parameters you need for typical applications are shown on the front facia — it could not be easier
- Easy installation — choose between simple panel mounting and DIN-rail mounting (up to 1.5 kW/2 HP)
- Simple connections — easy access terminals with clear markings
- Simple start up — simple push button set up — no need for complex programming
- Built-in EMC filter
- Display Keypad included as standard
- Software and Documentation CD included as standard
- Communications Port RS485 — Modbus RTU as standard
- Available up to 132 kW/200 HP



**APPLICATIONS:** For use where precise open-loop speed control is required with a 3-phase induction motor; Pumps, Blowers, Fans, Conveyors, Material Handling, Hoists, Extruders, Mixers and agitators, etc.

### FEATURES:

- Open Loop Vector Control - Speed or Torque
- Switching Frequency range: 3kHz - 18kHz — quiet motor operation
- Easy Setup - all parameters for basic usage on front panel
- Programming of just ten parameters is typically sufficient to setup 80% of applications
- Built-in EMC filter
- Output Frequency : 0-1500 Hz
- RS485, Modbus RTU communications port standard (RJ45 connector)
- 8 Preset Speeds
- Dynamic Braking Transistor as standard
- Fan and Pump optimization with quadratic motor flux V/Hz

### ENVIRONMENT:

- IP20
- UL<sup>®</sup> Type 1 kit and cover kit options up to Size C
- Ambient temperature -10°C to 40°C
- Electromagnetic Immunity complies with EN61800-3, EN61000-6-1 and EN61000-6-2
- Humidity 95% maximum (non-condensing)
- Electromagnetic Emissions complies with EN61800-3(second environment) as standard.
- Complies with (with optional footprint EMC filter) EN61000-6-3 (residential) and EN61000-6-4 (industrial) generic

<sup>†</sup> All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners