

Varidyne® I

Variable Frequency Drives



APPLICATIONS:

For use where speed control is critical. Applications include fans, pumps, conveyors, extruders and mixers.

FEATURES:

- NEMA® I (IP20) Enclosure
- Only 10 Parameters Need For Most Applications
- Large Easy To Cable Power Terminals
- Integrated Braking Transistor From 1-50 HP
- Open Loop Vector Control With True Space Vector Modulation
- Output Frequency 0 To 1500 Hz
- Ambient Temperature -10° To +40°C
- No Spin Auto Tune For Fast Optimization
- CE, CSA®† & UL®† Approved
- Intelligent Thermal Management Technology
- 50 & 60 Hz Rated
- Standard Screwdriver Installation
- Advanced Functions Include Internal PID Control

| HP | Voltage | Frame | Catalog Number | Drive Frame | Full Load Amps | List | Discount Symbol | Ship Wt. (lbs.) | Notes |
|-------|---------|-------|----------------|-------------|----------------|---------|-----------------|-----------------|-------|
| 1/3 | 208-230 | 1 | VF13T1 | 1 | 1.5 | \$401 | DS-5EV | 3 | |
| 1/2 | 208-230 | 1 | VF12T1 | 1 | 2.3 | \$409 | DS-5EV | 3 | |
| 3/4 | 208-230 | 1 | VF34T1 | 1 | 3.1 | \$415 | DS-5EV | 3 | |
| 1 | 208-230 | 1 & 3 | VF1K1 | 2 | 4.3 | \$453 | DS-5EV | 6 | |
| | 208-230 | 1 | VF1T1 | 1 | 4.3 | \$418 | DS-5EV | 3 | |
| | 380-460 | 3 | VF1F1 | 2 | 2.1 | \$505 | DS-5EV | 14 | |
| 1-1/2 | 208-230 | 1 & 3 | VF32K1 | 2 | 5.8 | \$505 | DS-5EV | 6 | |
| | 380-460 | 3 | VF32F1 | 2 | 3 | \$574 | DS-5EV | 6 | |
| 2 | 208-230 | 1 & 3 | VF2K1 | 2 | 7.5 | \$543 | DS-5EV | 6 | |
| | 380-460 | 3 | VF2F1 | 2 | 4.2 | \$611 | DS-5EV | 6 | |
| 3 | 208-230 | 1 & 3 | VF3K1 | 2 | 10 | \$642 | DS-5EV | 6 | |
| | 380-460 | 3 | VF3F1 | 2 | 5.8 | \$678 | DS-5EV | 6 | |
| 4 | 380-460 | 3 | VF4F1 | 2 | 7.6 | \$803 | DS-5EV | 6 | |
| 5 | 208-230 | 3 | VF5K1 | 2 | 17 | \$827 | DS-5EV | 6 | |
| | 380-460 | 3 | VF5F1 | 2 | 9.5 | \$867 | DS-5EV | 6 | |
| 7-1/2 | 208-230 | 3 | VF7K1 | 3 | 25 | \$1,128 | DS-5EV | 14 | |
| | 380-460 | 3 | VF7F1 | 3 | 13 | \$1,128 | DS-5EV | 14 | |
| 10 | 208-230 | 3 | VF10K1 | 3 | 28.5 | \$1,346 | DS-5EV | 14 | |
| | 380-460 | 3 | VF10F1 | 3 | 16.5 | \$1,350 | DS-5EV | 14 | |
| 15 | 380-460 | 3 | VF15F1 | 4 | 24.5 | \$1,775 | DS-5EV | 25 | |
| 20 | 380-460 | 3 | VF20F1 | 4 | 30.5 | \$2,165 | DS-5EV | 25 | |
| 25 | 380-460 | 3 | VF25F1 | 4 | 37 | \$2,573 | DS-5EV | 25 | |
| 30 | 380-460 | 3 | VF30F1 | 5 | 46 | \$4,052 | DS-5EV | 50 | |
| 40 | 380-460 | 3 | VF40F1 | 5 | 60 | \$4,404 | DS-5EV | 50 | |
| 50 | 380-460 | 3 | VF50F1 | 5 | 70 | \$4,810 | DS-5EV | 50 | |

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

Varidyne® I

Variable Frequency Drive Accessories

APPLICATIONS:

Accessories to be used with the Varidyne® I Variable Frequency Drives.

Operator Interface

| Catalog Number | Description | List | Discount Symbol | Ship Wt. (lbs.) | Notes |
|----------------|---|-------|-----------------|-----------------|-------|
| VFKP | Universal Key Pad, 2-line, 16 char, LCD | \$520 | DS-5EP | 1 | |
| VFKP-485-005 | 5 ft. RJ45 Conn to VFKP cable | \$50 | DS-5EP | 1 | |
| VFKP-485-010 | 10 ft. RJ45 Conn to VFKP cable | \$60 | DS-5EP | 2 | |
| VFKP-485-015 | 15 ft. RJ45 Conn to VFKP cable | \$70 | DS-5EP | 2 | |
| VFKP-485-025 | 25 ft. RJ45 Conn to VFKP cable | \$100 | DS-5EP | 3 | |

Input/Output Modules

| Catalog Number | Description | List | Discount Symbol | Ship Wt. (lbs.) | Notes |
|----------------|-------------------------------------|------|-----------------|-----------------|-------|
| VF0051 | Bi-polar Speed Reference Input Card | \$70 | DS-5EP | 1 | |
| VF0055 | QuickKey/Cloning Module | \$50 | DS-5EP | 1 | |

Cable Shield Clamps

| Catalog Number | Description | List | Discount Symbol | Ship Wt. (lbs.) | Notes |
|----------------|----------------------------|------|-----------------|-----------------|-------|
| VF0011 | Cable Shield Clamps-Size 1 | \$30 | DS-5EP | 1 | |
| VF0012 | Cable Shield Clamps-Size 2 | \$30 | DS-5EP | 1 | |
| VF0013 | Cable Shield Clamps-Size 3 | \$70 | DS-5EP | 1 | |
| VF0014 | Cable Shield Clamps-Size 4 | \$70 | DS-5EP | 1 | |