

# Delta Drives

## VARIABLE SPEED AC MOTOR DRIVES

4.09.09



### VFD-EL SERIES

- Wide Power Range (0.25HP-5HP)
- Side-by-Side Installation (40°C)
- Easy Maintenance
- Standard MODBUS Protocol
- Built-in EMI Filter (230V 1 phase and 460V 3 phase)
- Compact Design
- Optional Fieldbus Modules
- RFI-Switch for IT Mains
- Easy DC BUS Sharing
- Complete Protection Function

### VFD-EL SERIES | *Sub-Fractional AC Drive*

| NOMINAL DRIVE RATING |      | 115V SINGLE PHASE INPUT |      |       | 230V SINGLE PHASE INPUT |      |       |
|----------------------|------|-------------------------|------|-------|-------------------------|------|-------|
| HP                   | KW   | PART NO.                | LIST | DIST. | PART NO.                | LIST | DIST. |
| 1/4                  | 0.2  | VFD002EL11A             |      |       | VFD002EL21A             |      |       |
| 1/2                  | 0.4  | VFD004EL11A             |      |       | VFD004EL21A             |      |       |
| 1                    | 0.75 | VFD007EL11A             |      |       | VFD007EL21A             |      |       |
| 2                    | 1.5  | ---                     |      |       | VFD015EL21A             |      |       |
| 3                    | 2.2  | ---                     |      |       | VFD022EL21A             |      |       |

| NOMINAL DRIVE RATING |      | 230V THREE PHASE INPUT |      |       | 460V THREE PHASE INPUT |      |       |
|----------------------|------|------------------------|------|-------|------------------------|------|-------|
| HP                   | KW   | PART NO.               | LIST | DIST. | PART NO.               | LIST | DIST. |
| 1/4                  | 0.2  | VFD002EL23A            |      |       | ---                    |      |       |
| 1/2                  | 0.4  | VFD004EL23A            |      |       | VFD004EL43A            |      |       |
| 1                    | 0.75 | VFD007EL23A            |      |       | VFD007EL43A            |      |       |
| 2                    | 1.5  | VFD015EL23A            |      |       | VFD015EL43A            |      |       |
| 3                    | 2.2  | VFD022EL23A            |      |       | VFD022EL43A            |      |       |
| 5                    | 3.7  | VFD037EL23A            |      |       | VFD037EL43A            |      |       |

VFD-B SERIES ►

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### VFD-B SERIES

- 16-bit microprocessor controlled PWM output
- Automatic torque boost & slip compensation
- Output frequency 0.1~400Hz
- 16-step speed control & 15-step preset speed
- PID feedback control & PF feedback control
- 4 accel./decel. times & 2 S-curve selections
- Pump control & automatic energy-saving
- Process follower-10~10VDC, 0~10VDC, 4~20mA
- MODBUS communication RS-485 (Baud rate 38400)
- Coast or ramp to stop
- Adjustable V/F curve & automatic voltage regulation
- Automatic adjustment of accel./decel. time
- Auto tuning & sensorless vector control
- Sleep/Revival Function
- Master/ Auxiliary and 1st/2nd frequency source selectable

#### VFD-B SERIES | Sensorless Vector AC Drive

| NOMINAL DRIVE RATING |      | 230V THREE PHASE INPUT |      |       | 460V THREE PHASE INPUT |      |       |
|----------------------|------|------------------------|------|-------|------------------------|------|-------|
| HP                   | KW   | PART NO.               | LIST | DIST. | PART NO.               | LIST | DIST. |
| 1                    | 0.7  | VFD007B21A*            |      |       | VFD007B43A             |      |       |
| 2                    | 1.5  | VFD015B21B*            |      |       | VFD015B43A             |      |       |
| 3                    | 2.2  | VFD022B21A*            |      |       | VFD022B43B             |      |       |
| 5                    | 3.7  | VFD037B23A             |      |       | VFD037B43A             |      |       |
| 7.5                  | 5.5  | VFD055B23A             |      |       | VFD055B43A             |      |       |
| 10                   | 7.5  | VFD075B23A             |      |       | VFD075B43A             |      |       |
| 15                   | 11   | VFD110B23A             |      |       | VFD110B43A             |      |       |
| 20                   | 15   | VFD150B23A             |      |       | VFD150B43A             |      |       |
| 25                   | 18.5 | VFD185B23A             |      |       | VFD185B43A             |      |       |
| 30                   | 22   | VFD220B23A             |      |       | VFD220B43A             |      |       |
| 40                   | 30   | VFD300B23A             |      |       | VFD300B43A             |      |       |
| 50                   | 37   | VFD370B23A             |      |       | VFD370B43A             |      |       |
| 60                   | 45   | ---                    |      |       | VFD450B43A             |      |       |
| 75                   | 55   | ---                    |      |       | VFD550B43A             |      |       |
| 100                  | 75   | ---                    |      |       | VFD750B43A             |      |       |

\*May also use 230V single phase input