New E3 series frame sizes!

- IP20 Frame 5
  - up to 25HP @230V
  - up to 50HP @460V
- NEMA 4X (IP66) Frame 4
  - up to 15HP @230V or
  - up to 30HP @460V

The operation behind automation excellence

Innovation
- From cutting-edge products to efficient procedures, we always look for new ideas and a better way.

Perseverance
- We never give up the effort to be the very best in the automation business.

Vision
- Planning well into the future and managing long term goals to ensure continuity of purpose that we can all buy into.

Investment
- Pursuing the vision takes investment in development, inventory, tools, and above all, the team.

Know-how
- Constant attention to training and skill building keeps everyone on top.

Bardac Drives
40 Log Canoe Circle, Stevensville, MD 21666 USA (410) 604-3400 or US 1-888-667-7333 bardac.com driveweb.com

24/7, online ordering at AutomationThings.com
**AC DRIVES**

**P2 Series *Closed Loop Vector**

High performance systems drive for:
- Process automation
- Printing
- Machine tools, and Converting
  - up to 400HP
  - 230, 460, & 600 volt builds
  - IP20 up to 150HP (50°C)
  - NEMA 4X (IP66) up to 300HP (40°C)
  - NEMA 12 (IP55) 15-400HP (40°C)
- AC Induction & PM motor modes
- Brake transistor, DC Bus sharing, Safe Torque Off function, and Modbus or CANopen port

**Options:** drive.web smarts, extended I/O, Ethernet, Internet, and USB.

**E3 Series *General Purpose VFD**

Precision Sensorless Vector for:
- General purpose machine control
- Pumps, blowers, and Conveyors
  - IP20 up to 50HP
  - NEMA 4X (IP66) up to 40HP
  - IP10, 230, and 460 volts 1Ø & 3Ø builds
- Motors: Induction, PM, BLDC, SynRel
- Quiet run, power loss ride through

**Options:**

- drive.web smarts
- Internet, Ethernet, Modbus, USB

**NEMA 4X (IP66) *For Harsh Environments**

E3, P2, and V3 Drives
- Food processing, Mining, Water treatment, and Agricultural
  - up to 300HP | 1Ø & 3Ø builds
  - 110, 230, and 460 volts
- Washdown, dust tight, Chemical resistant, Spinnstart, SKIP, Modbus & braking, Quiet run, and power loss ride through
- NEMA 4X drives are available in Outdoor Ratings!

**E3 Series 1Ø VFD *Variable torque drive, Pumps, Fans & blowers, Fume extractors, and Air flow control**

- up to 0.75HP (110V)
- up to 1.5HP (230V)
- NEMA 1 (IP20) & NEMA 4X (IP66)
- Motors: Shaded Pole (SP) & Perm Split Cap (PSC)
- Pump & Fan control modes, Innovative smart boost start

**V3 ECO Series *Energy Efficient Variable Torque Drives**

- Fans & pumps, HVAC, Water treatment, Building systems, Climate control, Flow control, and Swimming pools
- IP20 up to 150 HP (50°C)
- NEMA 4X (IP66) up to 300HP (40°C)
- NEMA 12 (IP55) 15 - 400HP (40°C)
- Pump Features:
  - Pump blockage (detect/clear/strip)
  - Preheat/anticondensation mode
  - Pump cascade control
  - Dry run protection

**Options:** drive.web smart control, Internet access,

**savvyPanel touch HMI, EIP, Modbus TCP, peer-to-peer Ethernet, USB programming, IIoT ready, power disconnect**

**Motor options:**

- Standard Induction, PM AC, Brushless DC, or Synchronous Reluctance

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**DC DRIVES**

**PL Series DC drives with 2000+ HP capability**

**Single Phase DC Drives up to 7.5HP**

- Regenerative & Non-Regenerative
  - 110/230, 230/400, 230/460 volt units
- Chassis & DIN rail mountable drives in compact packages for both stand-alone and systems-based applications

**Features Include:**

- Armature volts or tach feedback
- Accurate speed & torque control modes

**Options:** drive.web smarts, extended I/O, Ethernet, Internet, savvyPanel touch HMI

**Low Voltage DC Servos up to 12 amps**

For small, high performance position and speed control applications such as robotics, mechanical handling, automated assembly, packaging processes, machine tool axis, etc.

Easily interfaced to the drive.web smarty to provide full featured multi-axis control functions such as trapezoidal & cam motion with state machine logic.

**Options:**

- powerDRIVES with built in contactor, high speed fuses, etc.
- drive.web smarts
- Internet, Ethernet, Modbus, USB
- savvyPanel touch screens

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**drive.web smart options for all drives ... peer-to-peer Ethernet, Internet access, full featured control, graphical signal flow view, system wide programming, savvyPanel touch HMI, extended I/O**