The operation behind automation excellence

Innovation
From products that shine to procedures that flow, we always look for new ideas and a better way.

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

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

Investment
Persuing 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.

Leadership smarts
Sweating the details
Safety & quality focus
Customer & team training
Team skills
Dedicated support

Bardac
SMART AUTOMATION
with unbeatable drive.web distributed control

Configure, connect & control everything ... in one environment
Internet accessible ... peer-to-peer Ethernet ... intuitive, smart tools
Cost effective for systems of any size or complexity

savvy
System Design & Configuration Tools

smarty
Universal Automation Controller & Distributed i/o

smartPanel
Touch screen operator stations with control tools & WiFi "roaming". For PC, iPad or iPhone

drive.web savvy
smart, graphical tools ensure easy creation of all the connectivity and control functions you need in a coordinated drive system

drive.web
speedy
speedy
AC Drive Controller

speedy
Embeddable Controller for integrating into drives & devices. With Ethernet & USB port for total system access

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**AC DRIVES**

**P2 Series**
Closed Loop Vector

- High performance systems drive for:
  - Process automation
  - Printing
  - Machine tools
  - Converting
  - Up to 350 HP
  - 230, 460 & 600 volts builds
  - IP20 package up to 50HP - 50°C
  - NEMA 4X (IP66) to 10HP - 40°C
  - NEMA 12 (IP55) 15-250HP - 40°C
  - AC Induction & PM motor modes
  - Brake transistor
  - DC Bus sharing
  - Safe Torque Off function

**Motor options:**
- Standard Induction - PM AC - Brushless DC - Synchronous Reluctance

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

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**E3 Series**
General Purpose VFD

**NEMA 4X - IP66**
For Harsh Environments

- P2 Vector & E3 Sensorless Vector
- Food processing
- Mining
- Water treatment
- Agricultural
- Up to 10 HP
- 230, 460, 600 volts, 10 & 30 builds
- Motors: Induction, PM, BLDC, Synchronous
- Standard IP20 & NEMA 4X (IP66)
- Industrial, Pump & Fan modes
- Quiet run, power loss ride through
- Spinstart, skip, Modbus & braking

**Motor options:**
- Standard Induction - PM AC - Brushless DC - Synchronous Reluctance

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**V3 ECO Series**
Energy Efficient Drives For Fans & Pumps

- Variable torque, fan & pump drive for:
  - HVAC
  - Water treatment
  - Building systems
  - Climate control
  - Flow control
  - Swimming pools
- IP20 package up to 50HP - 50°C
- NEMA 4X (IP66) to 15HP - 40°C
- NEMA 12 (IP55) 15 to 250HP - 40°C
- Pump Features
  - Pump blockage detect/clear/stir
  - Preheat/anticondensation mode
  - Pump cascade control
  - Dry run protection

**Motor options:**
- Standard Induction - PM AC - Brushless DC - Synchronous Reluctance

**Options:**
- drive.web smart control, Internet access, savvyPanel touch HMI, EIP, ModbusTCP, peer-to-peer, prime-time Ethernet, USB programming, 107 ready, power disconnect

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**V3 ECO Series**
Energy Efficient Drives For Fans & Pumps

- Up to 350 HP
- 230, 460 & 600 volts builds
- -98% efficient
- Low input harmonics
- Low audible motor noise
- Smart energy optimization
- Intelligent maintenance intervals
- Power loss ride through
- Drive auto bypass
- Sleep mode with auto-boost
- Fire override mode

**Options:**
- drive.web smart control, Internet access, savvyPanel touch HMI, EIP, ModbusTCP, peer-to-peer, prime-time Ethernet, USB programming, 107 ready, power disconnect

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**Low voltage DC servos - 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 smart panel to provide full featured multiaxis control functions such as trapezoidal & cam motion with state machine logic.

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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

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**DC DRIVES**

**PL Series**
DC drives to 2000+ HP

**Standard Features**
- Total digital control
- Basic peer-to-peer link
- 40 character backlit display
- Friendly, easy menu structure
- Modern, compact packaging
- Extensive, flexible, plug-in I/O
- Tach, encoder & arm volts feedback
- Easy reliable autotune

**Options**
- powerDRIVES with built in contactor, high speed fuses, etc.
- drive.web smart
- Internet, Ethernet, Modbus
- SavvyPanel touch screens

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**Single phase DC drives - to 7.5HP**

Regenerative & Non-regenerative
110/230, 230/400, 230/460 volts units

- Chassis & DIN rail mounting drives in compact packages for both stand alone and systems

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

- Options: drive.web smart, extended I/O, Ethernet, Internet, savvyPanel touch HMI

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**Low voltage DC servos - to 12 amps**

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