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.

Leadership smarts

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

Quality focus

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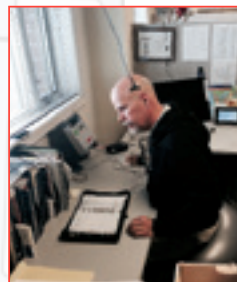
Know-how
Constant attention to training and skill building keeps everyone on top.

Sweating the Details

Stock up to 2000HP

Consistent Innovation

Dedicated support

Bardac Drives

24/7, online ordering at AutomationThings.com

Bardac drives — SMART AUTOMATION
with unbeatable drive.web distributed control

Configure, connect, and control everything in one environment.

Utilizing peer-to-peer Ethernet technology, *drive.web* is completely internet accessible.

Distributed control ensures cost effective systems of any size or complexity.

savvy for all Systems!
The *savvyPanel* operator interface is available on our own *dw230* touch screens plus:

- iOS and Android
- PC, Mac, and Linux

More power per square inch!
Introducing the *dw250 smarty7*:

- 0.82 x 3.62 x 4.73 in (WxHxD) DIN rail mounting
- 16 analog and 16 digital I/O plus two selectable current inputs: 4-20mA, 0-20mA, 20-0mA
- Six frequency/event/digital inputs, 100kHz max.
- Seven frequency/stepper/digital outputs. 500kHz max.
- Two differential, incremental, quadrature encoder inputs with markers, ABZ.
- ModbusRTU Client (server optional)
- 100baseTX Ethernet
- Modbus TCP/IP Client & Server
- EIP/PCCC
- Dedicated CANopen device options available
- USB-C

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 30HP (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.

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 30HP (40°C)

NEMA 12 (IP55) 15 - 400HP (40°C)

Pump Features:
Pump blockage (detect/clear/stir)
Preheat/anticondensation mode
Pump cascade control
Dry run protection

up to 400HP
230, 460, & 600 volt builds

>98% efficient

Low input harmonics

Low audible motor noise

Smart energy optimization

Intelligent maintenance intervals

Power loss ride through

ModbusRTU, BACnet

Fan Features

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

DC DRIVES

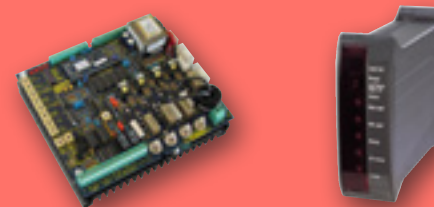## PL Series DC drives with 2000+ HP capability

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
- RS232 serial port
- Full featured systems drives

- Easy configuration saving & cloning
- Built-in automatic field controller
- Built in programmable control functions for PID, winders, orientation, etc.
- Tach, encoder & arm volts feedback
- Easy reliable autotune

Options

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

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
110, 230, and 460 volts
1Ø & 3Ø builds

Motors: Induction, PM, BLDC, SynR

Industrial, Pump & Fan modes, Quiet run, power loss ride through, Spinstart, skip, Modbus, and braking

NEMA 4X (IP66) *
For Harsh Environments

E3, P2, and V3 Drives Food processing, Mining, Water treatment, and Agricultural

up to 30HP | 1Ø & 3Ø builds
110, 230, and 460 volts

Washdown, dust tight, Chemical resistant, Spinstart, 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

* Approvals: UL, C-UL, CE, C-Tick

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.

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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