

PowerXL enclosed drives

Enclosed industrial and clean power drives



PowerXL enclosed drives



PowerXL® enclosed drives is a Next Generation enclosed drives platform that packages Eaton's PowerXL DG1 drive into a new and innovative solution. A common assembly design used across 9 million pre-engineered standard configurations delivers an easy-to-use product with industry best lead times. Add in the flexibility of custom engineered configurations and the reliability of a UL® 508C design and an ISO® 9001 manufacturing process, you get the most versatile, fast and reliable product on the market.

Product range

- 230 V up to 150 hp
- 480 V up to 250 hp
- 575 V up to 250 hp
- 100 kAIC SCCR
- OSHPD certification
- Cat 2 EMC filtering

Product offering

- EGS—DG1 drive model
- EGF—DG1 drive model
- EGP—DG1 drive model

Industry solutions

- Water/wastewater
- Oil and gas
- Irrigation pumping
- Industrial infrastructure

Service and support

- 50 years of experience as a leader in enclosed drives
- Two-year standard warranty or up to five years with certified commissioning
- Specification and application support
- 24 hours a day, 7 days a week no cost technical support
- Regional communications and systems integration support
- Global network of Eaton's Engineering Services & Systems available on-site startup, studies and repairs

Versatile

- ✓ Flexibility of custom engineered configurations
- ✓ Advanced harmonic mitigation packages plus energy-saving regenerative power packages
- ✓ NEMA® 1, 12, 3R, 4/4X and 7/9 rated enclosures

Fast

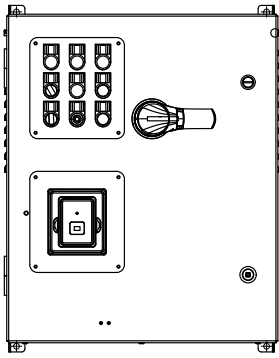
- ✓ Industry best lead times
- ✓ Intuitive Bid Manager™ tool for configuration and pricing
- ✓ Centralized customer connection points for ease of installation

Reliable

- ✓ Designed and tested to meet UL 508C standards
- ✓ Excellent heat dissipation from rear external heat sink
- ✓ All drives undergo extensive functional and burn in testing

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Powering Business Worldwide



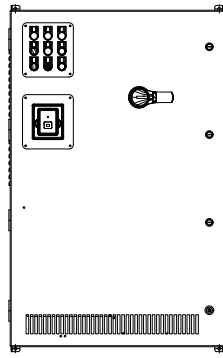
Standard enclosed drive package

Features

- NEMA 1, 12, 3R, 4, 4X, 7/9
- External keypad and customizable pilot devices
- Selection of PowerXL DG1, SVX, SPX or H-Max drives
- Circuit breaker and fusible disconnect
- Mechanical and electric bypass
- Input and output filtering
- Single-phase

Benefits

- Industry best lead times
- Custom engineering capabilities
- Small footprint, compact enclosure design
- Centralized customer wiring connection points
- UL 508C and UL 508A



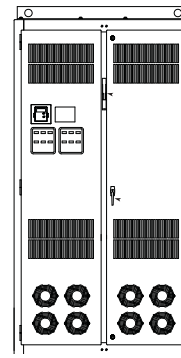
Passive-filtered enclosed drive package

Features

- Tuned passive filter
- Delivers 5 to 8% THD
- Generator compatible
- Uses the same DG1, SVX or SPX drive that is stocked in the warehouse
- Simple to retrofit

Benefits

- Provides a low-impedance path to ground for the harmonic frequencies
- Meets IEEE® 519-2014
- Excellent cost for performance
- Small footprint, compact enclosure design
- Insensitive to voltage imbalance



18-pulse enclosed drive package

Features

- 18-pulse phase-shifting autotransformer
- Increased input protection for the drive and its semiconductors from line transients
- Delivers 3 to 6% THD
- True power factor
- Uses the same DG1, SVX or SPX drive that is stocked in the warehouse

Benefits

- Meets IEEE 519-2014
- Excellent phase balance
- Small footprint, compact enclosure design
- Each unit undergoes full load burn in testing
- Prevents overheating of upstream transformers and overloading of breakers and feeders

Rapid Response Program

The Rapid Response Program is an industry-leading quick-shipment program for enclosed variable frequency drives, providing common configurations in just 3 days.

Product Range

- PowerXL DG1 drive
- NEMA 1/12 and 3R
- Single-phase
 - 230 V: 1–20 hp
 - 480 V: 5–40 hp
- Three-phase
 - 230 V: 1–30 hp
 - 480 V: 5–60 hp

Configuration options

- Main breaker
- Breaker and bypass
- Pilot device kit

Step 1

Select catalog number

Step 2

Enter order

3 Days



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PowerXL DG1 drive specifications (component drive)

Description	Specification
Input frequency	50–60 Hz
Short-circuit withstand rating	100 kAIC
Initial output current	200% (2 sec./20 sec.)
Output frequency	0–400 Hz (standard)
Frequency resolution	0.01 Hz
Operating temperature	–10 °C (no frost) to +40 °C, up to +60 °C with derating
Storage temperature	–40 °C to +70 °C
Relative humidity	0–95% RH, noncondensing, non-corrosive
Altitude	100% load capacity (no derating) up to 3280 ft (1000 m); 1% derating for each 328 ft (100 m) above 3280 ft (1000 m) 9843 ft (3000 m) maximum
On-board communications	EtherNet/IP, Modbus/TCP, Modbus RTU, BACnet MS/TP
On-board I/O	8DI, 1DO, 2AI, 2AO, 2FC relays and 1 FA relay

For further information, please visit

Eaton.com/encloseddrives

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