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

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

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

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
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

PowerXL DG1 drive specifications (component drive)

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input frequency</td>
<td>50–60 Hz</td>
</tr>
<tr>
<td>Short-circuit withstand rating</td>
<td>100 kAIC</td>
</tr>
<tr>
<td>Initial output current</td>
<td>200% (2 sec./20 sec.)</td>
</tr>
<tr>
<td>Output frequency</td>
<td>0–400 Hz (standard)</td>
</tr>
<tr>
<td>Frequency resolution</td>
<td>0.01 Hz</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>–10 °C (no frost) to +40 °C, up to +60 °C with derating</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>–40 °C to +70 °C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0–95% RH, noncondensing, non-corrosive</td>
</tr>
<tr>
<td>Altitude</td>
<td>100% load capacity (no derating) up to 3280 ft (1000 m); 1% derating for each 32 ft (100 m) above 3280 ft (1000 m) 9843 ft (3000 m) maximum</td>
</tr>
</tbody>
</table>

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