

# GX9 ASD

## Specifications

The GX9 severe duty adjustable speed drive is revitalizing the industry by combining Toshiba's proprietary, ground-breaking Virtual Linear Pump (VLP) Technology® into a drive that has a 600V class rating. By incorporating VLP Technology, the GX9 directly, precisely, and linearly controls pressure, flow, level, and temperature, which seamlessly controls multiple devices while balancing the load between them. This state-of-the-art, energy efficient adjustable speed drive is designed to withstand the most severe conditions and is engineered to provide tight speed control, while offering the industry's most user-friendly operator interface.

### Product Scope

600 V at 500 to 1200 HP

### Highlights

- Proprietary VLP Technology
- Maximize Energy Savings on Variable Torque Loads
- No Flow/Low NPSH Cut-Off
- Automatic Sleep Timer
- Sealing Water Control Interlock
- 110% Continuous Overload Rating, 130% for 120 Seconds
- Eight Programmable Discrete Inputs
- Three Discrete Outputs; Two Form-A Contacts, One Form-C Contact
- Three Programmable Analog Inputs: One 0 to 20 mA or 0 to 10 VDC Isolated Input, One 0 to 10 VDC Input, & One ±10 VDC Input
- Two Programmable Analog Outputs: One Programmable 4 to 20 mA or 0 to 10 VDC & One 4 to 20 mA Output
- TTL Communication Port or RS485 with Optional TTL-MOD-485 Adapter
- Auto-Restart Operation/Catch a Spinning Motor

### Standard Features

- NEMA 1, IP20 Gasketed & Filtered Enclosure
- Built-in Real-time Clock
- Past Trip Monitoring: Stores the Last 20 Faults in Succession, Along with Cumulative At-trip Times
- EOI: Backlit Plain-English LCD Display & Four Digit Seven Segment Display
- Ambient Temperature: -14° to 104°F (-10° to 40°C)
- Humidity: 95% Non-Condensing
- Altitude: Up to 1000 Meters without Derate
- Standards/Compliances: NEC, ANSI



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## Assembly Unit

### Part Numbering Convention



The GX9 is an assembly unit from 500 to 1200 HP that includes an input circuit breaker.

The part numbering scheme for a given configuration is defined in the following section.

**Ordering Information:** Use the following part numbering convention to configure the GX9 series package when placing your order.

| Example Part Number:   | GX9 | 4 | ##K/##L | AA |
|--|-----|---|---------|----|
| <b>Series:</b><br>GX9 — GX9 ASD  |     |   |         |    |
| <b>Voltage:</b><br>6 — 600   |     |   |         |    |
| <b>Model Number:</b><br>50K — 500 HP<br>60K — 600 HP<br>70K — 700 HP<br>80K — 800 HP<br>90K — 900 HP<br>10L — 1000 HP<br>12L — 1200 HP |     |   |         |    |
| <b>Style:</b><br>AA — Includes Input Circuit Breaker   |     |   |         |    |

**GX9 ASD****600 V GX9 Assembly Unit  
Pricing & Dimensions**

| VAC | HP   | FLA  | Model Number |  | H                | W  | D  |
|-----|------|------|--------------|--|------------------|----|----|
|     |      |      |              |  | Dimensions (in.) |    |    |
| 600 | 500  | 481  | GX9650KAA    |  | 95               | 32 | 33 |
| 600 | 600  | 601  | GX9660KAA    |  | 95               | 32 | 33 |
| 600 | 700  | 698  | GX9670KAA    |  | 95               | 32 | 33 |
| 600 | 800  | 770  | GX9680KAA    |  | 95               | 32 | 33 |
| 600 | 900  | 866  | GX9690KAA    |  | 95               | 48 | 33 |
| 600 | 1000 | 962  | GX9610LAA    |  | 95               | 48 | 33 |
| 600 | 1200 | 1155 | GX9612LAA    |  | 95               | 48 | 33 |

**Notes:**

- Factory authorized startup is required on all ASDs 400 HP and larger.