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Industrial Systems

Motors

M-G Set

Drives

G9 LV Severe Duty Industrial

P9 Low Voltage Pumping Control

G7 LV Severe Duty Industrial

GX7 LV Severe Duty Specialty

H9 LV Heavy Duty Industrial

H7 LV Standard Duty Industrial

HX7 LV Standard Duty Specialty

HX7 Plus Pack LV Severe Outdoor

Q9 LV Variable Torque HVAC

Q7 LV Variable Torque HVAC

QX7 LV Variable Torque HVAC

VF-FS1 LV Variable Torque HVAC

S11 LV Standard Duty Micro

nC1 LV Standard Duty Sub Micro

G3+ LV Severe Duty Specialty

AS1 LV Heavy Duty

W7 LV Variable Torque Water/Wastewater

T300MVi MV Standard Duty All Purpose

MTX NEMA 3R MV Severe Outdoor

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GX7 Low Voltage Severe Duty Specialty

Toshiba's GX7 Series PWM adjustable speed drive is a severe duty drive built to handle all conventional applications in the industry, ranging from the simplest to the most complex. The GX7 Series offers flux-vector technology with or without encoder feedback. This drive maintains astoundingly tight control over both torque and speed with the industry's most user-friendly operator interface. The GX7 is designed to handle the most extreme conditions, continuing the G-Series tradition of delivering a robust performance platform.



Take a closer look

SpecificationsManualsBrochuresDrawingsSetup SoftwareSupport

GX7 Standard Specifications				
Voltage Class	600 VAC			
Maximum HP	500 HP	600 HP	700 HP	800 HP
Drive Rating (A)	481 A	601 A	698 A	770 A
Dimensions	95"H x 32"W x 30.5"D			
Power Requirements				
Output Frequency	0 to 299 Hz			
Control Power	DC Bus Control Power			
Tolerance	Voltage: ±10%; Frequency: ±2%			
Control Specifications				
Control Method	Sine Wave PWM System; Flux Field Current Vector Control			
V/Hz Control	Constant Torque, Variable Torque, Open-Loop Vector, Auto or Manual Torque Boost, 5-Point V/Hz Custom Curves			
Overload Rating	130% for 120 Seconds; 110% Continuous			
Frequency Setting	Rotary Encoder Integrated into EOI, 0 to 10 V, ±10 V, 4 to 20 mA, Binary Input, Motorized Potentiometer Input			
Frequency Precision	Analog Input: ±0.2% of Maximum Output Frequency; Digital Input: ±0.01% of Maximum Output Frequency			
Frequency Resolution	Panel Operation: 0.01 Hz; Analog Input 10 to 12-Bit A to D Converter: 0.1 Hz			

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Acceleration / Deceleration	0.1 to 6000 Seconds
Speed Regulation	Up to 0.1%; 60:1 Speed Range
Torque Setting	±250% of the Rated Torque
Set Point Control (PID)	Proportional Gain, Integral Gain, Feedback Settings Upper/Lower Deviation Limits, Feedback Source Delay Filter, Feedback Settings Differential Gain
Analog Inputs	Four Programmable: (1) 4 to 20 mA, (1) 0 to 10 V, (1) -10 to +10 V, (1) 1 to 10kΩ Potentiometer Connection
Analog Outputs	Two Programmable to 31 Functions
Discrete Inputs	Eight Programmable to 67 Functions; Expandable to N-Value
Output Contacts	Three Output Terminals, Programmable to 52 Functions; Form C Contacts Rated 250 V AC, Two Amps Inductive
Signal Isolation	Available Three-Channel Signal Isolation for AM/FM Outputs and II Terminal Input, Rated at 750 V
Power Terminals	Input (L1, L2, L3) Output (T1, T2, T3) DCL (PO, PA), DBR (PA, PB), DCBUS (PA, PC)
Control Board Communication Ports	RS232/485 and TTL Ports Standard
Data Transmission	Profibus, DeviceNet, Modbus RTU, Modbus+, Metasys, Ethernet (Some Devices are External)
Main Protective Functions	Current Limit, Overcurrent, Overvoltage, Undervoltage, Load-Side Short Circuit, Load-Side Ground Fault, Armature Short; Overtorque, ASD Overload, Motor Overload, Heatsink Overheat, Open Output Phase, Loss of Feedback, CPU Error, Communications Error
Soft Stall	Automatic Load Reduction Control During Overload
Retry	Can Automatically Clear Fault Upon Trip; Programmable to 10 Tries with up to 10 Seconds Between Tries
Restart	Restart into a Rotating Motor
Interface	
LCD/EOI (Liquid Crystal Display/Electronic Operator Interface)	Backlit LCD Display; Ability to Display Multiple Parameters on One Screen; Keypad may be Operated from External Power Source; Software is Flash Upgradeable; Includes Multi-Function Rotary Encoder
LED Indicators	Run (Red)/Stop (Green), Remote/Local (Green), DC Bus Charge Indication (Red)
Keys	Local/Remote, Monitor/Program, Run, Enter, ESC, Stop/Reset, Up, Down
Monitoring	Main Display Shows Two Monitored Items Continuously, or Scrolls Up to 40 Items
Selectable Display Units	User-Selectable and Configurable along with Scaling Factor Multiplier; Voltage Display Selectable: Volts or %; Current Display Selectable: Amps or %.
EOI Communication Ports	RS232/485 and TTL Ports Standard
Remote-Mount Display	Remote Mountable Up to 1000 Feet
Construction	
Enclosure	NEMA 1, IP20, Gasketed and Filtered
Panel Construction	Free-Standing, Front-Maintenance Type, Top or Bottom Access for Motor and Power Cables
Cooling	Forced-Air Cooled Top-Mounted Fans may be Removed During Shipment or Installation
Color	ANSI-61 Gray
Ambient Conditions	
Ambient Temperature	-10 to 40°C (-14 to 104°F)
Humidity	Max. 95% (Non-Condensing)
Altitude	1000 Meters (3300 Feet) Above Sea Level or Less
Installation	Indoor, No Direct Sunlight, Protect from Corrosive Gases and/or Explosive Gases
Standards	
Electrical Compliance	NEC, ANSI



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