

TOSHIBA

Adjustable Speed Drives Product Offering



Reliability *in motion*[®]

Industrial Product Line

If a standard product, customized application, or an integrated system is what you need, Toshiba industrial products will meet and exceed your expectations. We offer a complete range of products for both general and definite purpose applications. Toshiba keeps a stock of standard products for general purpose needs. We also have excellent engineers dedicated to designing products for your application requirements. Our engineering and manufacturing capabilities give us ultimate flexibility in customizing any of our products and providing complete solutions such as motor/drive packages.

Motors

Low Voltage Motors ranging from 1/2 to 700 HP and 208 to 600 V

General Purpose Low Voltage

Open Drip
Totally-Enclosed Fan Cooled
XS840
IEEE 841
Explosion Proof

Definite Purpose Low Voltage

Inverter Ready
Vertical Shaft
Stainless Steel
Quarry Duty
Oilwell Pump
Close-Coupled Pump
Dry Kiln
Air Over
Brake

Medium Voltage Motors ranging from 200 to 50000 HP and 2300 to 13800 V

Definite Purpose Medium Voltage

Adjustable Speed Drives Compatible
API 541 Compliant
Weather Protected Type I
Weather Protected Type II
Totally Enclosed Water-to-Air Cooled
Totally Enclosed Air-to-Air Cooled
Totally Enclosed Fan-Cooled Fin

Uninterruptible Power Systems

*Single-Phase Ranging from 1 to 18 KVA
Three-Phase Ranging from 15 to 3000 KVA*

General Purpose

Single-Phase Data Center
Three-Phase Data Center

Definite Purpose

Industrial
Medical
Semiconductor Manufacturing
Telecommunication

Power Distribution

Medium Voltage Motor Starters
Medium Voltage Control Gear
Solid State Starters
Components: Contactors and Relays



Adjustable Speed Drives

Toshiba is a leading manufacturer of low voltage and medium voltage adjustable speed drives ranging from 1 to 10000 HP and 230 to 4600 V. Toshiba ASDs, like all other Toshiba industrial products, are robustly built with the needs of the customer in mind. Our drives are engineered to readily handle even the most demanding applications and provide precise control, adaptability, and exceptional functionality. Toshiba ASDs offer this superior performance with the most user-friendly programming and easy product maintenance in the business.

We supply a full range of general purpose and definite purpose ASDs suited to meet the demands of virtually any industry. Toshiba ensures that you are getting the best product for your specific application.



Textiles



Utilities



Cement & Aggregate



Food & Beverage



Assembly

TOSHIBA

Adjustable Speed Drive



	nC1	S11
Classification	Standard Duty	Standard Duty
Ratings 100 to 120 V Single Phase	0.12 to 1 HP	N/A
Ratings 200 to 240 V Single Phase	0.25 to 3 HP	0.5 to 3 HP
Ratings 200 to 240 V Three Phase	0.12 to 3 HP	0.5 to 20 HP
Ratings 380 to 480 V	N/A	1 to 20 HP
Ratings 500 to 600 V	N/A	2 to 20 HP
Ratings 690 V	N/A	N/A
Ratings 2300 to 4160 V	N/A	N/A
18-Pulse Input	N/A	N/A
24-Pulse Input	N/A	N/A
36-Pulse Input	N/A	N/A
Available Enclosures	NEMA 1	NEMA 1 & IP54 & IP55
Operational Variables/ VFD Operation Control	Volts/Hertz, Slip Compensation, Open-Loop Vector	Volts/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector, Automatic Energy Savings for Fans & Pumps
Overload Protection	100% Continuous; 60 Seconds at 150%	100% Continuous; 60 Seconds at 150%
Dynamic Braking	N/A	Included
Ambient Rating	-10 to 50°C	-10 to 50°C (60°C with Derate)
Features	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Preset Speeds, PID Control, Output Frequency 0.5 to 500 Hz
Software/Downloadable from Website	PCM001Z	PCM001Z/ASD Pro
Communications (By the Use of Optional Internal or External Interface Devices)	DeviceNet, Profibus DP, Ethernet IP, Modbus+, Modbus RTU, Metasys N2, Siemens FLN, RS485, RS232	DeviceNet, Profibus DP, Ethernet IP, Modbus+, Modbus RTU, Ethernet TCP/IP, Metasys N2, Siemens FLN, RS485, RS232

Drives Product Offering



AS1	H9	G9
Standard Duty	Standard Duty	Heavy Duty
N/A	N/A	N/A
N/A	N/A	N/A
0.5 to 100 HP	3 to 125 HP	0.75 to 100 HP
1 to 700 HP	5 to 400 HP	1 to 350 HP
2 to 700 HP	N/A	N/A
3 to 630 KW	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
IPO0	NEMA 1	NEMA 1
Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector, Closed-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector, Closed-Loop Vector
100% Continuous; 60 Seconds at 150%	100% Continuous; 60 Seconds at 120%	115% Continuous; 120 Seconds at 150%
Built-In IGBT 7 in 0.5 to 250 HP; External Option in 300 HP and Up	N/A	Included
0 to 50°C (60°C with Derate)	-10 to 40°C	-10 to 40°C
SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Preset Speeds, Pattern Run, Output Frequency 0.01 to 500 Hz, PID Control, Encoder Feedback, <i>My Function</i> Logic Feature	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Preset Speeds, Pattern Run, Output Frequency 0.01 to 299 Hz, PID Control, <i>My Function</i> Logic Feature	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Preset Speeds, Pattern Run, Output Frequency 0.01 to 299 Hz, PID Control, Encoder Feedback, <i>My Function</i> Logic Feature
PCM001Z/ASD Pro	ASD Pro	ASD Pro
DeviceNet, Profibus DP, Profinet, Ethernet TCP/IP, Modbus RTU, Modbus+, RS485	DeviceNet, Profibus DP, Profinet, Ethernet TCP/IP, Modbus RTU, Modbus+, RS485	DeviceNet, Profibus DP, Profinet, Ethernet TCP/IP, Modbus RTU, Modbus+, RS485



HX7 18-Pulse

GX7

HX7E

Classification	Standard Duty	Heavy Duty	Standard Duty
Ratings 100 to 120 V Single Phase	N/A	N/A	N/A
Ratings 200 to 240 V Single Phase	N/A	N/A	N/A
Ratings 200 to 240 V Three Phase	N/A	N/A	N/A
Ratings 380 to 480 V	60 to 800 HP	N/A	N/A
Ratings 500 to 600 V	N/A	500 to 800 HP	N/A
Ratings 690 V	N/A	500 to 800 HP	500 to 1000 HP
Ratings 2300 to 4160 V	N/A	N/A	N/A
18-Pulse Input	Included	N/A	N/A
24-Pulse Input	N/A	N/A	N/A
36-Pulse Input	N/A	N/A	N/A
Available Enclosures	NEMA 1	NEMA 1	NEMA 1
Operational Variables/VFD Operation Control	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector
Overload Protection	100% Continuous; 60 Seconds at 120%	110% Continuous; 120 Seconds at 130%	100% Continuous; 60 Seconds at 120%
Dynamic Braking	N/A	Included	Included
Ambient Rating	0 to 40°C	-10 to 40°C	-10 to 40°C
Features	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, Output Frequency 0 to 299 Hz	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, Output Frequency 0 to 299 Hz	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, PID Control, Output Frequency 0.01 to 299 Hz
Software/Downloadable from Website	ASD Pro	ASD Pro	ASD Pro
Communications (By the Use of Optional Internal or External Interface Devices)	DeviceNet, Profibus DP, Ethernet IP, Modbus+ Modbus RTU, Metasys N2, RS485, RS232	DeviceNet, Profibus DP, Ethernet IP, Modbus+ Modbus RTU, Metasys N2, RS485, RS232	DeviceNet, Profibus DP, Ethernet IP, Modbus+ Modbus RTU, Metasys N2, RS485, RS232



HX7+ Pack	T300MVi	MTX
Standard Duty	Heavy Duty	Heavy Duty
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
60 to 1500 HP	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	300 to 10000 HP	500 to 1500 HP
N/A	N/A	N/A
N/A	Included	N/A
N/A	N/A	Included
NEMA 1 & 3R	NEMA 1	NEMA 3R
Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector, Closed-Loop Vector	Voltz/Hertz, Slip Compensation, Auto-Torque Boost, Open-Loop Vector, Closed-Loop Vector
100% Continuous; 60 Seconds at 120%	100% Continuous; 60 Seconds at 110 or 115% Depending on Rating	100% Continuous; 60 Seconds at 115%
Included	N/A	N/A
-10 to 40°C	0 to 40°C (50°C with Derate)	0 to 50°C
SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, PID Control, Output Frequency 0.01 to 299 Hz	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, PID Control, Output Frequency 0 to 120 Hz	SS Overload Protection, Adjustable Acceleration/Deceleration, Adjustable Carrier Frequency, Flying Start, Power Ride Through, Pattern Run, PID Control, Output Frequency 0 to 120 Hz
ASD Pro	Wi Tool	Wi Tool
DeviceNet, Profibus DP, Ethernet IP, Modbus+, Modbus RTU, Metasys N2, RS485, RS232	DeviceNet, Profibus DP, Modbus RTU, Ethernet IP	DeviceNet, Profibus DP, Modbus RTU, Ethernet IP

TOSHIBA INTERNATIONAL CORPORATION



North American Headquarters & Manufacturing Facility (Houston, TX)

TOSHIBA – Quality by Design

Toshiba's culture and history are strongly rooted in quality. Our designs are technologically innovative, and our products are manufactured from start to end using only the highest quality domestic and foreign parts.

Product Warranty

Toshiba offers a comprehensive warranty program on its full line of industrial products. Consult your salesperson or the factory for specific information.

Need to Know More?

Be sure to visit our website located at www.toshiba.com/ind for the latest information on Toshiba products and services.

Customer Support Services

Toshiba offers 24-hour service nationwide. For assistance of any type call: 1-800-231-1412.



ADJUSTABLE SPEED DRIVES MOTORS CONTROLS UPS INSTRUMENTATION PLC

TOSHIBA

Available Through:

TOSHIBA INTERNATIONAL CORPORATION

INDUSTRIAL DIVISION

13131 West Little York Road, Houston, Texas 77041

Tel 713/466-0277 Fax 713/466-8773

US 800/231-1412 Canada 800/872-2192 Mexico 01/800/527-1204

www.toshiba.com/ind

Copyright 2/2008