



Toshiba G3+ PACK Operation Manual Addendum

Asd, 480 volt ratings

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480 Volt Ratings

Date: December, 2007

Project No.: 60459-000

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Summary of Contents for Toshiba G3+ PACK

[Page 1](#) G3+ P ASD O PERATION ANUAL DDENDUM 480 Volt Ratings Date: December, 2007
Project No.: 60459-000...

[Page 2](#) Manual's Purpose and Scope This addendum manual was written by the Toshiba Technical Publications Group. This group is tasked with providing technical documentation for the G3+ Pack Adjustable Speed Drive. Every effort has been made to provide accurate and concise information to you, our customer.

[Page 3](#) Adjustable Speed Drive Adjustable Speed Drive Please complete the Warranty Card

supplied with the ASD and return it to Toshiba by prepaid mail. Please complete the Warranty Card supplied with the ASD and return it to Toshiba by prepaid mail.

[Page 5: Table Of Contents](#)

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[Page 7: General Safety Information](#)

CAUTION The word CAUTION without the safety alert symbol indicates a potentially hazardous situation exists which, if not avoided, may result in equipment and property damage. CAUTION G3+ Pack Addendum...

[Page 8: Special Symbols](#)

DO NOT remove or cover any of these labels. If the labels are damaged or if additional labels are required, contact your Toshiba sales representative for additional labels. Labels attached to the equipment are there to provide useful information or to indicate an imminently hazardous situation that may result in serious injury, severe property and equipment damage, or death if safe procedures or methods are not followed as outlined in this manual.

[Page 9: Equipment Inspection](#)

- Keep the equipment in an upright position.
- Contact your Toshiba sales representative to report discrepancies or for assistance if required.
- Handling and Storage
- Use proper lifting techniques when moving the ASD; including properly sizing up the load, getting assistance, and using a forklift if required.

[Page 10: Installation Precautions](#)

Installation Precautions Location and Ambient Requirements • The Toshiba ASD is intended for permanent installations only. • Installation should conform to the 2005 National Electrical Code — Article 110 (NEC) (Requirements For Electrical Installations), all regulations of the Occupational Safety and Health Administration, and any other applicable national, regional, or industry codes and standards.

[Page 11: Conductor Routing And Grounding](#)

ASD and may cause injury to personnel. • DO NOT install the ASD if it is damaged or if it is missing any component(s). • Turn the power on only after attaching and/or securing the front cover. G3+ Pack Addendum...

[Page 12: Protection](#)

Note: A supplemental emergency stopping system should be used with the ASD. Emergency stopping should not be a task of the ASD alone. • Follow all warnings and precautions and do not exceed equipment ratings. G3+ Pack Addendum...

[Page 13: System Integration Precautions](#)

Please contact your Toshiba sales representative for application-specific information or for training support. • The Toshiba ASD is part of a larger system and the safe operation of the ASD will depend on observing certain precautions and performing proper system integration. •...

[Page 14: System Setup Requirements](#)

When using an ASD output disconnect the ASD and the motor must be stopped before the disconnect is either opened or closed. Closing the output disconnect while the 3-phase output of the ASD is active may result in equipment damage or injury to personnel. G3+ Pack Addendum...

[Page 15: Operational And Maintenance Precautions](#)

Turn the power on only after attaching (or closing) the front cover and DO NOT remove the front cover of the ASD when the power is on. • DO NOT attempt to disassemble, modify, or repair the ASD. Call your Toshiba sales representative for repair information. •...

[Page 16: Standard Specifications](#)

Speeds. Terminal block control and repetitive run possible. Braking Starting frequency adjustment (0 to 120 Hz), braking current DC Injection Braking adjustment (0 to 100%), braking time adjustment (0 to 10 seconds), emergency stop braking function, motor shaft stationary control. G3+ Pack Addendum...

[Page 17](#) Fault reset via keypad, remote contact closure, or programming drive Reset retry. Cycling power also resets fault (fault display can be maintained). The G3+ Pack may be configured to use regenerative energy from the Ridethrough Control motor to maintain programmable settings during a brownout.

[Page 18: Post-Reset Requirements](#)

Carrier Frequency — Set to 2.2 kHz (item #42). • Discrete Input S4 — Set to 10 (EOFF; item #48). This item is to be set to Normally Closed (SuperUser access required). See the project drawing for further information on this setting. G3+ Pack Addendum...

[Page 19: G3+ Pack Asd Typical Wiring Diagram](#)

G3+ Pack ASD Typical Wiring Diagram G3+ Pack Addendum...

[Page 20: Part Numbering Convention](#)

Part Numbering Convention The G3+ Pack ASD is a special configuration, large horsepower, G3 ASD. The NEMA 3R version is designed for outdoor applications and is painted white — the indoor system is painted ANSI 61 gray. Ordering Information Use the following part numbering convention when ordering the G3+ ASD.

[Page 21: Current/Voltage Specifications](#)

Current/Voltage Specifications Table 1. 480-Volt G3+ Pack NEMA1/NEMA3R Enclosure Standard Ratings. Model Input Output Voltage Output Current Output Current Rated Motor Number Voltage/Frequency 3-Ph Variable 100% Cont. 120% for 60 Secs. HP/kW G3+B 3-Ph 50/60 Hz Frequency (Amps) (Amps) 4660...

[Page 22: Specifications For Cables And Terminals](#)

Note: Cables and Terminals specifications are based on the rated current of the ASD — They Do Not include a 10% Service Factor. Table 2. Specifications for Cables and Terminals for the 6-Pulse G3+ Pack. Lug Size Wire Size AWG...

[Page 23](#) Note: Cables and Terminals specifications are based on the rated current of the ASD — They Do Not include a 10% Service Factor. Table 3. Specifications for Cables and Terminals for the 12-Pulse G3+ Pack. Lug Size Wire Size AWG...

[Page 24: Dynamic Braking Resistor Wire/Cable Specifications](#)

The total wire length from the ASD to the DBR should not exceed ten feet. If EMI/RFI noise is of concern, the DBR wiring should be three-core screened cable. The screen should connect to the ASD enclosure and the resistor enclosure. G3+ Pack Addendum...

[Page 25: Enclosure Dimensions](#)

Refer to Figures 1 through pg. 24 for the location of dimensions through in tables and 5. Note: All Toshiba ASD enclosures carry at least an IP20 rating. Table 4. NEMA 1. Model Shipping Number Fig. Weight G3+B lbs.(kg) i n c h e s...

[Page 26](#) (893) 445K 15.5 0.62 (1549) 451K40 (1981) (394) (38) (16) 460K 470K 2000 70.07 35.04 481K (907) (1829) (2286) (1780) (890) 493K (1118) (1067) (686) 410L 412L 3500 82.07 41.04 414L40 (1588) (2134) (2794) (2085) (1042) 415L40 G3+ Pack Addendum...

[Page 27](#) Figure 1 G3+ Pack Addendum...

[Page 28](#) Figure 2 G3+ Pack Addendum...

[Page 29](#) Figure 3 G3+ Pack Addendum...

