

TOSHIBA

Toshiba TOSVERT VF-AS3 Quick Start Manual

1
2
3
4
5
6
7
8
9
10
11
12
13
14

•

Bookmarks

[Download this manual](#)

Quick Links



Safety precautions

The items described in the instruction manual and on the inverter itself are very important so that you can use safely the inverter, preventing injury to yourself and other people around you as well as to prevent damage to property in the area.

Thoroughly familiarize yourself with the symbols and indications shown below and then continue to read the manual. Make sure that you observe all warnings given.

* Read the Safety precautions of the instruction manual (GD-RGM) for information not mentioned here.

Explanation of markings

Marking

Indicates that errors in operation will lead to death or serious injury.

WARNING

Indicates that errors in operation will lead to injury (

CAUTION

damage to physical property (

*1 Such things as injury, burns or electric shock that will not require hospitalization or long periods of outpatient treatment.

TOSHIBA

TOSVERT VF-AS3

*2 Physical property damage refers to wide-ranging damage to assets and materials.

Meanings of symbols

Marking

Indicates a prohibition (Do not do it).

Detailed information on the prohibition is described in illustration and text in or near the symbol.

Indicates a mandatory action that must be followed.

Detailed information on the mandatory action is described in illustration and text in or near the symbol.

Indicates a warning or caution.

Detailed information on the warning or caution is described in illustration and text in or near the symbol.

TOSHIBA

TOSVERT VF-AS3

Limits in purpose

This inverter is used for controlling speeds of three-phase motors in general industrial use.

The single-phase input inverter performs three-phase output and cannot drive a single-phase motor.

▼This product is intended for general purpose uses in industrial application. It cannot be used for application which will

cause big impact on public and require special quality control, such as power plant and railway, and equipment in which failure and operational errors of this product can endanger human life or harm a human body, such as equipment for nuclear power control, aviation, space flight control, traffic, medical, safety device, and amusement. However, it is possible to verify the application propriety under the condition that purpose is limited and special quality control is not

required. Please contact your Toshiba distributor if you wish to use this product for a specific purpose.

▼Please use our product for application which will not cause serious accident or damage even if the product has failure or please use our product in environment where a backup circuit, device is provided as a system outside the product or a safety device functions.



▼Please do not use our product for any load other than three-phase motors in general industrial use. Use in other than



proper three-phase motors can cause an accident. The single-phase input model inverter performs three-phase output and cannot drive a single-phase motor.

• Never disassemble, modify or repair. This can result in electric shock, fire and other injury. Please call your Toshiba distributor for repairs.

Disassembly inhibited



Quick Start Manual



Meaning of marking

*2

).



Meaning of marking

Safety precautions

EN-1

*1

) to people or that these errors will cause

E6582071



TOSHIBA

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba TOSVERT VF-AS3

[Inverter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

High-performance industrial inverter for 3-phase motors, 3-phase 240v class 0.4 to 55kw, 3-phase 480v class 0.4 to 280kw (622 pages)

[Inverter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

Industrial inverter (for 3-phase motors) (599 pages)

[Inverter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

Embedded ethernet function (84 pages)

[Inverter Toshiba TOSVERT VF-S15 Function Manual](#)

(80 pages)

[Inverter Toshiba TOSVERT VF-S15 Manual](#)

(79 pages)

[Inverter Toshiba TOSVERT VF-AS3 Quick Start Manual](#)

Industrial inverter (68 pages)

[Inverter Toshiba TOSVERT VF-AS3 Quick Start Manual](#)

3-phase 240v class 0.4 to 55kw, 3-phase 480v class 0.4 to 280kw, for 3-phase motors (68 pages)

[Inverter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

Industrial totally enclosed box type inverter (56 pages)

[Media Converter Toshiba TOSVERT VF-S15 Series Manual](#)

(51 pages)

[Computer Hardware Toshiba TOSVERT VF-MB1 Function Manual](#)

(48 pages)

[Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

(32 pages)

[Inverter Toshiba TOSVERT VF-AS3 Manual](#)

(28 pages)

[Inverter Toshiba TOSVERT VF-AS3 Installation Manual](#)

Flange mounting kit (20 pages)

[Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual](#)

Rs485 communication function (20 pages)

[Inverter Toshiba TOSVERT VF-AS1 Instruction Manual](#)

High performance (19 pages)

[Inverter Drive Toshiba tosvert VF-AS3 Instruction Manual](#)

(19 pages)

Summary of Contents for Toshiba TOSVERT VF-AS3

Page 1 Please contact your Toshiba distributor if you wish to use this product for a specific purpose. ▼Please use our product for application which will not cause serious accident or damage even if the product has failure, or please use our product in environment where a backup circuit, device is provided as a system outside the product or a safety device functions.

Page 2 • All options to be used must be those specified by Toshiba. The use of options other than those specified by Toshiba will result in an accident. • In using a power distribution device

and options for the inverter, they must be installed in a cabinet.

[Page 3](#) E6582071 CAUTION • Carry the inverter by two people or more when the inverter is the model mass 20kg or more (VFAS3- 2110P - 2370P, VFAS3-4220PC - 4750PC). If you carry the inverter alone, this will result in injury. • Transport a large-capacity inverter (VFAS3-2450P, 2550P, VFAS3-4900PC - 4280KPC) by a crane. If you transport a heavy load by hand, this will result in injury.

[Page 4](#) E6582071 CAUTION • Do not attach devices with built-in capacitors (such as noise reduction filters or surge absorbers) to the output terminals (motor side). Heat rises up and this could cause a fire. • Do not switch only one of two grounding capacitor switch screws in the same form. The inverter will have failure due to insufficient switching.

[Page 5](#) Rated voltage Rated input Rating label current Rated output current Danger label Name plate TOSHIBA INDUSTRIAL PRODUCTS AND SYSTEMS CORPORATION Install the inverter Basic installation Side-by-side installation H 3 or more H 1 or more Type-form H1(cm) H2(cm)

[Page 6](#) E6582071 Wire size for ND rating Power circuit (mm Grounding Grounding Voltage Applicable Voltage Applicable class motor (kW) class motor (kW) wire (mm wire (mm Input Output Input Output 3-phase 3-phase 0.75 0.75-4.0 240V 480V 18.5 18.5 70x2 50x2 50x2...

[Page 7](#) E6582071 (3) Press [OK] or [F4] key. (4) When setting is complete, the initial screen immediately The screens below are displayed alternately while after power on is displayed for four seconds. Then, [Standard mode] screen is displayed. setting a region. STOP 0.0Hz 02:40...

[Page 8](#) E6582071 Parameter setting Determine the run command select with <CMOd> and frequency command select with <FMOd>. Title Parameter name Adjustment range Default setting CMOd Run command select 0:Terminal 1:Operation panel, Extension panel 2:Embedded Ethernet 3:RS485 communication (connector 1) 4:RS485 communication (connector 2) 5:Communication option FMOd Frequency command select 1 0: -...

[Page 9](#) E6582071 Appendix LCD screen and operation keys LCD screen [F1] - [F4] keys [ESC] key [FWD/REV] key [HAND/AUTO] key [i] key [RUN] key [STOP/RESET] key Touch wheel [OK] key LCD screen Touch wheel This screen displays [Standard mode], [Setting mode], Slide your finger in a circular motion to change the [Monitor mode], and [Easy mode] according to the menu items and values on the screen.

[Page 10](#) E6582071 (1) The operation status is displayed with the (3) The output frequency is displayed in Hz. following symbols. (4) The run commands are displayed with icons. : Run (Rotating): In operation, the rotation direction is : Stop also indicated (5) The remaining capacity of the battery (yes/ : Stop...

[Page 11](#) E6582071 Switching of backlight color When you press the [F3] key (mark), you can change the color of the backlight to white or red. STOP 0.0Hz 12:49 Keypad settings Language selection Date/Time settings 2000/08/24 Screen contrast Standby 3min Internet website Top View Language Monitor Operate the inverter by keypad...

[Page 12](#) E6582071 (5) Select "10: Touch wheel 1 (power off or press OK to (8) Press [OK] key in [Standard mode]. save)" and press [OK] key. Setting screen of <FC> is displayed. STOP 0.0Hz STOP 0.0Hz 02:33 04:11 FMOd :Frequency command 1 :Panel frequency 6: - 0.0Hz...

[Page 13](#) E6582071 (11) Press [RUN] key. (12) Press [STOP] key to stop motor. The motor starts to run, and the output frequency is The motor decelerates and stops. increased. The output frequency reaches to the setting frequency STOP 0.0Hz 02:36 (e.g. 50.0 Hz). Top View Mode 32.6Hz 04:12...