

TOSHIBA

Toshiba BCN002Z Instruction Manual

Toshiba tosvet vf-fs1 series bacnet option unit instruction manual

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TOSHIBA TOSVERT VF-PS1 series

1. Make sure that this instruction manual is delivered to the end user of BACnet unit.
2. Read this manual before installing or operating the BACnet safe place for reference.
3. All information contained in this manual are subject to change without notice. Please confirm the latest information on our web site www.inverter.co.jp .

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BACnet
option unit



Instruction Manual

NOTICE

E6581402

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Summary of Contents for Toshiba BCN002Z

[Page 1](#) TOSVERT VF-FS1 series BACnet Instruction Manual 1. Make sure that this instruction manual is delivered to the end user of BACnet unit. 2. Read this manual before installing or operating the BACnet safe place for reference. 3. All information contained in this manual are subject to change without notice. Please confirm the latest information on our web site www.inverter.co.jp .

[Page 2: Safety Precautions](#)

Safety precautions On the inverter and in its instruction manual, important information is contained for preventing injuries to users, damages to assets, and for proper use of the device. Read the instruction manual attached to the inverter along with this instruction manual to completely understand the safety precautions, the symbols and indications shown below.

[Page 3: Safety Precaution](#)

Limitation of use Never use this unit with any device other than TOSVERT VF-FS1 series inverters. Doing so may cause an accident. Handling in general Never disassemble, modify or repair the product. Disassembling the product may cause electric shocks, fire or injuries. Never For repairs, call your sales/repair agency.

[Page 4](#) Wiring Electrical construction work must be done by a qualified expert. Connection of input power by someone who does not have expert knowledge may result in electric shocks or fire. Turn off input power before wiring. Wait at least 10 minutes and make sure that the charge lamp (on the inverter unit) is no Mandatory longer lit.

[Page 5](#) Preface Thank you for purchasing the BACnet ® option (BCN002Z) for TOSVERT VF-FS1 inverter. By Installing this board into the VF-FS1, data communication can be made with a host computer or other device via BACnet network. Before using this unit, carefully read this instruction manual in order to completely and correctly utilize excellent performance of this unit.

[Page 6: Table Of Contents](#)

Table of Contents 1. Overview 2. Names and functions 2.1. Outline 2.2. Use of RS485 communication port 2.3. LED indicator 3. Installation and Setup 3.1. Installation method 3.2. Description of terminals 3.3. Network cable connection 3.4. Network configuration 3.5. Wiring of a control terminal 4.

[Page 7: Overview](#)

1. Overview The BACnet (BCN002Z) interface allows the VF-FS1 inverter to be connected into a BACnet network. BACnet MS/TP supports a maximum of 32 nodes for one segment. 2. Names and functions The drawing below shows names and functions of main parts.

[Page 8: Led Indicator](#)

2.3. LED indicator The option has two LEDs. Those functions are below table. Green State LEDs
Green LED : OFF Red LED : Flashing 5 times in 1 second Green LED : OFF Red LED : Flashing 3 times in 2 seconds, Off for 1 second Green LED : ON Red LED : OFF 0.5s, ON 0.5s...

[Page 9: Installation And Setup](#)

Cabling label position Example VF-FS1 Standard terminal board VF-FS1 unit Board catching pin Terminal board fixing screw (M3 screw tightening torque: 0.7 to 0.8Nm) Stick the BCN002Z nameplate like bellow figure. Insulating seat BACnet communication option (attached) (BCN002Z) - 8 -...

[Page 10: Description Of Terminals](#)

3.2. Description of terminals <Control terminals specification> Terminal Function symbol
BACnet communication signal EIA-485 Multifunctional programmable contact input.
SINK/SOURCE can be selected with SW. Multifunction programmable analog input. with internal pull-up resistor for PTC Control circuit s equipotential terminal 24 V power supply output
Multifunctional programmable relay contact outputs...

[Page 11: Network Cable Connection](#)

3.3. Network cable connection Connect the BACnet network cable to communication option as follows. Title Wire type Characteristic impedance Distributed impedance between conductors
Distributed impedance between conductors and shield Length of an MSTP segment * Fix a cable so that a communication connector may be not taken the weight of wire. 3.4.

[Page 12: Wiring Of A Control Terminal](#)

Provide an inter-lock so that the programmable controller cannot be turned off when the inverter power is alive. Programmable controller Fuse blowout detection circuit VF-FS1 +

[Page 13: Parameters](#)

4. Parameters 4.1. Communication parameters Set up the inverter parameters as follows. To update, reset the power of inverter. If these parameters are not set to correct value, this unit can not work normally. Title Function cmod Command mode selection Frequency setting mode fmod selection 1...

[Page 14: Specifications](#)

5. Specifications < Environmental specification > Item Service environment Operation temperature Storage temperature Relative humidity Vibration < BACnet option terminal specification > Item Communication between inverter Applicable model Communication method Baud rate Parity Control power supply Logic input terminal Logic output terminal Relay contact output terminal Analog input terminals...

[Page 15: Warranty](#)

6. Warranty Any part of BACnet communication option that is proved to be defective will be repaired free of charge under the following conditions: 1. This product will be repaired free of charge, if problem/fault occurs under normal handling within one year of delivery and is caused obviously by a design or manufacturing defect. 2.