



Toshiba RS-485 Operation Manual

Option unit for tosvert vf-s7

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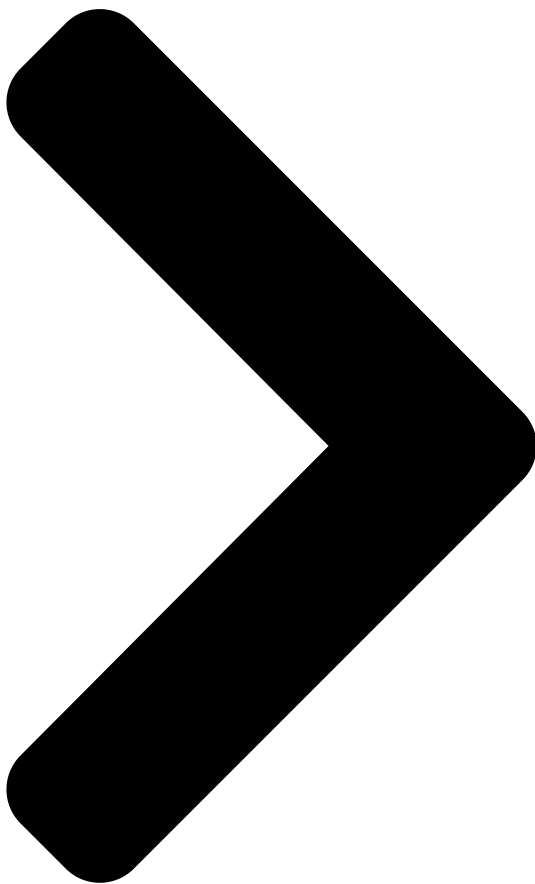
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See also: [Instruction Manual](#) , [User Manual](#)



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This option is available only for VF-S7 series adjustable speed drives (ASDs) whose CPU is V103 or higher. Communication does not work with versions V100~V102. Be sure that your ASD contains at least V103 CPU software.

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Operation Manual

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Related Manuals for Toshiba RS-485

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Rs485 communication function (73 pages)

[Network Card Toshiba RS232C User Manual](#)

Rs232c/rs485 multi-drop adapter (8 pages)

[Media Converter Toshiba RS-485 Installation Manual](#)

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Optional add-on cassette (26 pages)

[Accessories Toshiba Adjustable Speed Drive H3 Operation Manual](#)

Variable torque adjustable speed drive (122 pages)

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Occupancy sensor (4 pages)

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Summary of Contents for Toshiba RS-485

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9 This option is available only for VF-S7 series adjustable speed drives (ASDs) whose CPU is V103 or higher.	

[Page 2](#) Read the safety precautions in the VF-S7 Instruction Manual before powering up your VF-S7 unit. The S7 series has a built-in serial communication port. Using this RS-485 Option Unit, the ASD and a peripheral device such as a computer or PLC can communicate with each other.

[Page 3: Safety Precautions](#)

Carefully read the following notes Safety precautions There are warnings and cautions

appearing on the ASD and in its operation manual. Carefully read those warnings and cautions because they are very important not only for safe and correct operation but also for preventing the equipment and operators from getting damaged or injured.

[Page 4](#) To avoid the possibility of electric shock due to leakage currents, always ground the ASD unit's E/GND terminal and the motor. To avoid misoperation, do not connect RS-485 Option Unit's SHIELD terminal to either of above-mentioned grounds or any other ground.

[Page 5: Overview](#)

1. Overview By using RS-485 Option Unit, a network can be constructed that allows communication between a host computer and multiple ASD units. A maximum of 32 Option Units can be connected on the same network. And two ASDs can be connected to one Option Unit. A maximum of 64 ASDs can be connected on the same network.

[Page 6: Names And Functions Of Main Parts](#)

3. Names and functions of main parts Switch for communication speed & Termination resistor setting (Note) Set the switch before power on (Back side of the UNIT) OFF (OPEN) 1 2 3 4 (Front side of the UNIT) (1) Communication speed setting (SW1, 2) Setting Baud rate...

[Page 7: Connection And Start-Up](#)

Run the cable as shown in the figure. Use a common cable in the system. (5) Connect the shield of the twisted pair cable to the SHIELD terminal on each RS-485 Option Unit, and make the ground connection. Do not connect Host computer ground to a power ground or any other noise-producing ground connection.

[Page 8](#) OPTION UNIT INVERTER 2 More than 5cm VF-S7 Opening for communication connector To open the cover of the communication connector, slide it in the direction indicated with a triangle mark. Another RS-485 Option Unit 1.RXA 2.RXB 3.TXA 4.TXB 5.SG 6.SHIELD Communication...

[Page 9: Dimensions](#)

5.Dimensions Dimensions of the RS-485 Option Unit (with connector terminal (removal side)) are shown below. Make sure a space for connecting cables. Use M3 screws to install. 49.7 27.1 19.6 13.5 3.2hole 45° Unit: mm 22.6 3.2hole INVERTER 1 RS485...

[Page 10: Communication Parameters](#)

Cooling system 8.Warranty The RS-485 Option Unit is covered under warranty for period of 12 months from the date of installation, but not to exceed 18 months from the date of shipment from factory. For further warranty or service information, please contact Toshiba International Corporation.

This manual is also suitable for:

[Tosvert vf-s7](#)