



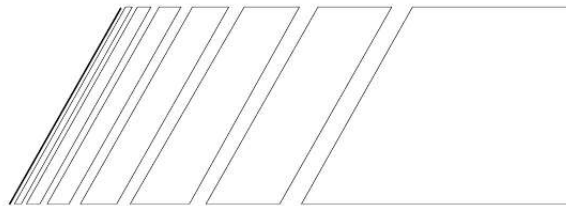
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You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON 3G3MV. You'll find the answers to all your questions on the OMRON 3G3MV in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual OMRON 3G3MV**  
**User guide OMRON 3G3MV**  
**Operating instructions OMRON 3G3MV**  
**Instructions for use OMRON 3G3MV**  
**Instruction manual OMRON 3G3MV**

Cat. No. I527-E1-04

**OMRON**



**USER'S MANUAL**

**SYSDRIVE 3G3MV**

**Multi-function Compact Inverter**



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**Manual abstract:**

No. @@@@No. I527-E1) to gain sufficient knowledge of the devices, safety information, and precautions before actual use. 2. The products are illustrated without covers and shieldings for closer look in this USER'S MANUAL. For actual use of the products, make sure to use the covers and shieldings as specified. 3. This USER'S MANUAL and other related user's manuals are to be delivered to the actual end users of the products. 4. Please keep this manual close at hand for future reference.

5. If the product has been left unused for a long time, please inquire at our sales representative. NOTICE 1. This manual describes the functions of the product and relations with other products. You should assume that anything not described in this manual is not possible.

2. Although care has been given in documenting the product, please contact your OMRON representative if you have any suggestions on improving this manual. 3. The product contains potentially dangerous parts under the cover. Do not attempt to open the cover under any circumstances.

Doing so may result in injury or death and may damage the product. Never attempt to repair or disassemble the product. 4. We recommend that you add the following precautions to any instruction manuals you prepare for the system into which the product is being installed. S Precautions on the dangers of high-voltage equipment. S Precautions on touching the terminals of the product even after power has been turned off. (These terminals are live even with the power turned off.) 5. Specifications and functions may be changed without notice in order to improve product performance. Items to Check Before Unpacking Check the following items before removing the product from the package: S Has the correct product been delivered (i.

e., the correct model number and specifications)? S Has the product been damaged in shipping? S Are any screws or bolts loose? USER'S MANUAL SYSDRIVE 3G3MV SERIES Multi-function Compact Inverter Notice: OMRON products are manufactured for use according to proper procedures by a qualified operator and only for the purposes described in this manual. The following conventions are used to indicate and classify precautions in this manual. Always heed the information provided with them. Failure to heed precautions can result in injury to people or damage to property. ! DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Additionally, there may be severe property damage. Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Additionally, there may be severe property damage. Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

! WARNING ! Caution OMRON Product References All OMRON products are capitalized in this manual. The word "Unit" is also capitalized when it refers to an OMRON product, regardless of whether or not it appears in the proper name of the product. The abbreviation "Ch," which appears in some displays and on some OMRON products, often means "word" and is abbreviated "Wd" in documentation in this sense. The abbreviation "PLC" means Programmable Controller. Visual Aids The following headings appear in the left column of the manual to help you locate different types of information.

Note Indicates information of particular interest for efficient and convenient operation of the product. OMRON, 1999 All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, mechanical, electronic, photocopying, recording, or otherwise, without the prior written permission of OMRON. No patent liability is assumed with respect to the use of the information contained herein. Moreover, because OMRON is constantly striving to improve its high-quality products, the information contained in this manual is subject to change without notice.

Every precaution has been taken in the preparation of this manual. Nevertheless, OMRON assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained in this publication. General Precautions Observe the following precautions when using the SYSDRIVE Inverters and peripheral devices. This manual may include illustrations of the product with protective covers removed in order to describe the components of the product in detail. Make sure that these protective covers are on the product before use. Consult your OMRON representative when using the product after a long period of storage. ! ! WARNING WARNING Do not touch the inside of the Inverter. Doing so may result in electrical shock. Operation, maintenance, or inspection must be performed after turning OFF the power supply, confirming that the CHARGE indicator (or status indicators) are OFF, and after waiting for the time specified on the front cover.

Not doing so may result in electrical shock. Do not damage, pull on, apply stress to, place heavy objects on, or pinch the cables. Doing so may result in electrical shock. Do not touch the rotating parts of the motor under operation. Doing so may result in injury. Do not modify the product. Doing so may result in injury or damage to the product. Do not store, install, or operate the product in the following places. Doing so may result in electrical shock, fire or damage to the product. S Locations subject to direct sunlight.

S Locations subject to temperatures or humidity outside the range specified in the specifications. S Locations subject to condensation as the result of severe changes in temperature. S Locations subject to corrosive or flammable gases. S Locations subject to exposure to combustibles. S Locations subject to dust (especially iron dust) or salts.

S Locations subject to exposure to water, oil, or chemicals. S Locations subject to shock or vibration. ! WARNING WARNING WARNING ! ! ! Caution ! Caution Do not touch the Inverter radiator, regenerative resistor, or Servomotor while the power is being supplied or soon after the power is turned OFF.

Doing so may result in a skin burn due to the hot surface. Do not conduct a dielectric strength test on any part of the Inverter.

Doing so may result in damage to the product or malfunction. Take appropriate and sufficient countermeasures when installing systems in the following locations. Not doing so may result in equipment damage. S Locations subject to static electricity or other forms of noise. S Locations subject to strong electromagnetic fields and magnetic fields. S Locations subject to possible exposure to radioactivity. S Locations close to power supplies. ! Caution ! Caution Transportation Precautions ! Caution Do not hold by front cover or panel, instead, hold by the radiation fin (heat sink) while transporting the product.



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.....  
.....  
.....  
*. 6-1-2 Adjusting Output Torque in Vector Control . . . . .*

.....  
.....  
.....  
*. . . . 6-2 Energy-saving Control . . . . .*

.....  
.....  
.....  
.....  
.....  
.....  
*6-2-1 Energy-saving Control Operation . . . . .*

.....  
.....  
.....  
.....  
*. 6-2-2 Performing Energy-saving Settings . . . . .*  
.....  
.....  
.....

.....  
*6-3 PID Control . . . . .*

.....  
.....  
.....  
.....  
.....  
.....  
*. . . . 6-3-1 PID Control Applications .*  
.....  
.....

.....  
.....  
.....  
.....  
*. 6-3-2 PID Control Operation . . . . .*  
.....  
.....  
.....

.....  
.....  
.....  
*6-3-3 Types of PID Control . . . . .*  
.....  
.....  
.....

.....  
*6-3-4 Block Diagram of PID Control . . . . .*  
.....













.....  
.....  
.....  
.....

... 7-9-3 Outline of Protocol Macro Function .....

.....  
.....  
.....

.. 7-9-4 Creating a Project File ...

.....  
.....

.....  
.....  
.....

. 7-9-5 Ladder Program .....

.....  
.....  
.....

.....  
.....  
.....

..... 7-9-6 Communications Response Time .....

.....  
.....  
.....  
.....

..... 7-2 7-2 7-5 7-6 7-6 7-8 7-11 7-11 7-13 7-16 7-18 7-19 7-21 7-21 7-22 7-27 7-29 7-30 7-30 7-33 7-34 7-38 7-47 7-51 Chapter 8. Maintenance Operations ...

.....  
.....  
.....

.... 8-1 8-1 Protective and Diagnostic Functions .....

.....  
.....  
.....

.....  
.....

.... 8-1-1 Fault Detection (Fatal Errors) .

.....  
.....

.....  
.....  
.....

... 8-1-2 Warning Detection (Nonfatal Errors) .....

.....  
.....  
.....

.....  
.....

. 8-2 Troubleshooting .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.. 8-2-1 Parameters Fail Set ...

.....  
.....

.....  
.....  
.....

.... 8-2-2 Motor Fails to Operate .....

.....  
.....  
.....

.....  
.....  
.....

... 8-2-3 Motor Rotates in the Wrong Direction .....

.....  
.....  
.....  
.....

8-2-4 Motor Outputs No Torque or Acceleration is Slow .....

.....  
.....

..... 8-2-5 Speed Accuracy of the Inverter Rotating at High Speed in Vector Control is Low .. 8-2-6 Motor Deceleration Rate is Low .

.....  
.....  
.....  
.....

.....

8-2-7 Vertical-axis Load Drops when Brakes are Applied .....

.....  
.....

..... 8-2-8 Motor Burns .....

.....  
.....  
.....

.....  
.....  
.....

... 8-2-9 Controller or AM Radio Receives Noise when Inverter is Started .....

.....  
.....

... 8-2-10 Ground Fault Interrupter is Actuated when Inverter is Started ..

.....

..... 8-2-11 Mechanical Vibration .....

.....  
.....  
.....

.....  
.....  
.....

..... 8-2-12 Stable PID Control is Not Possible or Control Fails . . . .

.....  
.....  
.....

.. 8-2-13 Inverter Vibration in Energy-saving Control . . . . .

.....  
.....  
.....

.... 8-2-14 Motor Rotates after Output of Inverter is Turned OFF . . . . .

.....  
.....  
.....

... 8-2-15 Detects OV (Over voltage) and Stalls when Motor Starts . .

.....  
.....  
.....

8-2-16 Output Frequency Does Not Reach Frequency Reference . . . . .

.....  
.....  
.....

.. 8-2-17 Inverter Does Not Run Because EF (Simultaneous Inputs of Forward and Reverse Commands) is Detected, Or Motor Rotates Momentarily When Control Device Power is Turned OFF . . . . . 8-3 Maintenance and Inspection . .

.....  
.....  
.....

.....  
.....  
.....

..... 8-2 8-2 8-10 8-14 8-14 8-14 8-16 8-16 8-17 8-17 8-18 8-18 8-18 8-19 8-19 8-20 8-20 8-21 8-21 8-22 Table of Contents Chapter 9.

Specifications . . . . .

.....  
.....  
.....

..... 9-1 9-1 Inverter Specifications . . . . .

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.. 9-2 Option Specifications . . . . .

.....  
.....  
.....

.....  
.....  
.....

..... 9-2-1 List of Options . .

.....  
.....  
.....

.....  
.....  
.....

... 9-2-2 DeviceNet Communications Unit . . . . .

.....  
.....  
.....  
.....

..... 9-2-3 Fan Unit .....

.....  
.....  
.....

.....  
.....  
.....  
.....

..... 9-2-4 Scaling Meter .....

.....  
.....  
.....

.....  
.....  
.....  
.....

9-2-5 Braking Resistor .....

.....  
.....  
.....

.....  
.....  
.....

..... 9-2-6 Braking Resistor Unit .....

.....  
.....  
.....  
.....

..... 9-2-7 DC Reactor .....

.....  
.....

.....  
.....  
.....  
.....

..... 9-2-8 DIN Track Mounting Bracket .....

.....  
.....

.....  
.....  
.....

..... 9-2-9 Digital Operators .....

.....  
.....  
.....  
.....

.....



conventional inverter. Furthermore, the 3G3MV Inverter suppresses the revolution fluctuation caused by the load. Incorporates a fully automatic torque boost function that drives the motor powerfully in V/f control.

Incorporates a high-speed current limit function, thus suppressing overcurrent caused by high torque and ensuring smooth operation of the motor. H  
Convenient Easy-to-use Functions · The FREQUENCY adjuster of the Digital Operator allows easy operation. The default setting is for operation according to the FREQUENCY adjuster setting. · The Digital Operator has a parameter copy function ensuring easy parameter control. · Ease of maintenance is ensured.

The cooling fan is easily replaceable. The life of the cooling fan can be prolonged by turning ON the cooling fan only when the Inverter is in operation. ·  
Incorporates a control transistor. Therefore, the Inverter will provide powerful control by just connecting a braking resistor.



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· Incorporates an inrush current preventive circuit that prevents contact weld at the input power supply block. H International Standards (EC Directives and UL/cUL Standards) The 3G3MV Inverter meets the EC Directives and UL/cUL standard requirements for worldwide use. EC Directives UL/cUL Classification EMC directive Low-voltage directive Applicable standard EN61800-3 EN50178 UL508C H Compatible with DeviceNet and RS-422/485 · Supports RS-422 and RS-485 communications conforming to the MODBUS Communications Protocol, thus making it possible to easily construct networks with the use of the Protocol Macro or ASCII Unit mounted on an OMRON SYSMAC PLC. The MODBUS Communications Protocol is a trademark of AEG Schneider Automation. · Connects to the 3G3MV-PDRT2 DeviceNet Communications Unit. A remote I/O function for DeviceNet communications Unit is available to the 3G3MV Inverter, which ensures ease of communications just like standard I/O communications.

Furthermore, DeviceNet communications conform to the DeviceNet communications protocol for open networks, thus allowing construction of multi-vendor networks in which other companies' devices can coexist. Note 1. MODBUS communications and DeviceNet communications cannot be performed simultaneously. It is necessary to select the type of communications required. Note 2. Only DeviceNet Communications Units manufactured after January 1st, 2000 can be connected to 5.5-kW and 7.5-kW Inverters. Earlier products are not compatible with these Inverters. 1-3 Overview H Handles a Variety of I/O

Signals Handles a variety of I/O signals over a wide application range as described below.

· Analog voltage input: 0 to 10 V · Analog current input: 4 to 20 or 0 to 20 mA · Pulse train input: 0.1 to 33.0 kHz set with parameter · Multi-function analog output or pulse train output is selectable as monitor output Chapter 1 H Suppression of Harmonics Connects to DC reactors, thus suppressing harmonics more effectively than conventional AC reactors. Further improvement in the suppression of harmonics is possible with the combined use of the DC and AC reactors. 1-4 Overview 1-2 Nomenclature Chapter 1 H Panel Digital Operator Front panel mounting screw RUN indicator ALARM display Terminal cover Front cover Four mounting holes Bottom cover Note None of the following 200-V models have a terminal cover or mounting holes.

Instead, the front cover is used as a terminal cover and two U-shaped cutouts are provided in place of the mounting holes. 3G3MV-A2001 (0.1 kW), 3G3MV-A2002 (0.2 kW), 3G3MV-A2004 (0.4 kW), and 3G3MV-A2007 (0.

75 kW) 3G3MV-AB001 (0.1 kW), 3G3MV-AB002 (0.2 kW), and 3G3MV-AB004 (0.4 kW) 1-5 Overview H Digital Operator Chapter 1 Data display Simplified-LED indicators FREQUENCY adjuster Operation keys Appearance Name Data display Function Displays relevant data items, such as frequency reference, output frequency, and parameter set values. Sets the frequency reference within a range between 0 Hz and the maximum frequency. FREQUENCY adjuster FREF indicator FOUT indicator IOUT indicator MNTR indicator F/R indicator LO/RE indicator The frequency reference can be monitored or set while this indicator is lit. The output frequency of the Inverter can be monitored while this indicator is lit. The output current of the Inverter can be monitored while this indicator is lit. The values set in U01 through U18 are monitored while this indicator is lit. The direction of rotation can be selected while this indicator is lit when operating the Inverter with the RUN Key.

The operation of the Inverter through the Digital Operator or according to the set parameters is selectable while this indicator is lit. Note This status of this indicator can be only monitored while the Inverter is in operation. Any RUN command input is ignored while this indicator is lit. The parameters in n001 through n179 can be set or monitored while this indicator is lit. Note While the Inverter is in operation, the parameters can be only monitored and only some parameters can be changed. Any RUN command input is ignored while this indicator is lit. Switches the simplified-LED (setting and monitor) item indicators in sequence. Parameter being set will be canceled if this key is pressed before entering the setting. Increases multi-function monitor numbers, parameter numbers, and parameter set values. PRGM indicator Mode Key Increment Key 1-6 Overview Appearance Name Decrement Key Enter Key Chapter 1

Function Decreases multi-function monitor numbers, parameter numbers, and parameter set values.

Enters multi-function monitor numbers, parameter numbers, and internal data values after they are set or changed. Starts the Inverter running when the 3G3MV is in operation with the Digital Operator. Stops the Inverter unless parameter n007 is set to disable the STOP Key. Functions as a Reset Key when an Inverter error occurs. (See note.

) RUN Key STOP/RESET Key Note For safety reasons, the reset will not work while a RUN command (forward or reverse) is in effect. Wait until the RUN command is OFF before resetting the Inverter. 1-7 Overview 1-3 New Features Chapter 1 New features have been added to 3G3MV-Series models with 5.5-kW and 7.5-kW capacities (i.

e., the 3G3MV-A2055/A2075/ A4055/A4075). These features are outlined below and explained in detail in Chapter 6. H New Features for 3G3MV-A2055/A2075/A4055/A4075 Only D Enclosure Rating: Closed Wall-mounting Conforming to IP20/NEMA1 The 5.5-kW and 7.5-kW Inverters have closed wall-mounting specifications that conform to IP20/NEMA1, so they can operate in an ambient temperature range of 10 to 40°C. Note To operate this Inverter within an ambient temperature range of 10 to 50°C, remove the top and bottom covers to convert it to a panel-mounting model (IP00). D Default Settings Changed for V/f Patterns (Parameters: n011 to n017) For 5.5-kW and 7.5-kW Inverters, two of the default settings have been changed.

The default settings for the middle output frequency voltage (VC) (n015) and the minimum output frequency voltage (VMIN) (n017) have both been changed to 10 V for 200-V-class models and to 20 V for 400-V-class models. D Inverter Overheating Warning Input (Parameters: n050 to n056; Fault Display: oH3) An Inverter overheating warning input has been added as a new function that can be set for multi-function inputs 1 to 7 (n050 to n056). When this warning is input, an oH3 fault (nonfatal error) will be displayed. This input can be used for functions such as thermal contact connections for peripheral overheating detection. D Frequency Reference Loss Detection (Parameter: n064) When the frequency is referenced using analog frequency reference inputs (0 to 10 V/4 to 20 mA/0 to 20 mA), this function detects sudden changes in analog inputs as errors (disconnection, short circuit, breakdown, etc.) and outputs the frequency reference loss output that is set in multi-function outputs 1 to 3 (n057 to n059).



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After the change is detected, operation continues at 80% of the frequency reference prior to the change. D Accumulated Operating Time (Monitor: U-13; Parameters: n087, n088) This function calculates and stores in memory the Inverter's accumulated power-ON time or RUN time. Use it for checking and determining the maintenance schedule. D Speed Search Adjustment (Parameters: n101, n102) A function has been added for adjusting the speed search. (The speed search is a function for detecting and smoothly controlling the speed of a free running motor.) The speed search operating time and search level can be adjusted. D Input Open-phase Detection (Parameters: n166, n167; Fault Display: PF) This function detects the Inverter's input power supply open phase. Open phases are detected through main circuit voltage fluctuations, so this function can also be used for detecting abnormal voltage fluctuations in the input power supply voltage. 1-8 Overview D Output Open-phase Detection (Parameters: n168, n169; Fault Display: LF) This function detects open phases between the Inverter output and the motor.

Chapter 1 D Ground Fault Detection (Fault Display: GF) This function detects ground faults between the Inverter output and the motor. D Load Short-circuit Detection (Fault Display: SC) Prior to an Inverter output, this function detects whether the output is short-circuited. If short-circuiting occurs during an output, it detects an overcurrent (oC). H New Features for All 3G3MV Models D Communications Error Monitor (Monitor: U-15) This function displays communications errors that occur during serial communications (RS-422/RS-485). The errors that are displayed have the same content as the general serial communications error at register number 003D Hex.

D Pulse Train Frequency Reference Input Filter Constant (Parameter: n076) This function sets the primary lag digital filter for pulse train frequency reference inputs. D Multi-function Analog Inputs (Parameters: n077 to n079) A function has been added to enable setting the Digital Operator's multi-function analog voltage (current) inputs. It can set auxiliary analog inputs such as auxiliary frequency references and frequency reference bias or gain. Note If multi-function analog inputs are set for use with PID control, no other multi-function analog input functions can be set or they will overlap. H New Features for 3G3MV Series (Software Version 0028 (3.7 kW or Less) or Higher) D Operation Continuation Timer Added to the Momentary Power Interruption Compensation Parameter (n081) Parameter n081 can be set so that operation will not restart after a power interruption until the RUN signal is ON for the time specified for the parameter (5 to 100 x 0.1 s). If the parameter is set to 2 (Inverter restarts when power is restored), operation will recover for all Inverters at the same time, meaning the power supply capacity must be sufficient for the maximum current. By setting timers to between 0.5 and 10.

0 s, differences can be created in the Inverter recovery time to prevent tripping the power supply breaker, which could happen if all Inverters recovered at the same time. D Enter Command (Saving Parameters to EEPROM) Operation Selection (n170) To Enable the Enter Command at Any Time Previously, operation had to be stopped to use the Enter command to save changes made to parameters during operation using DeviceNet or RS-422/485 communications. This sometimes caused saving parameters to be forgotten when a system could not be stopped immediately after changing parameters, causing the need to reset the parameters again when they were lost at the next power interruption or system shutdown. The new parameter n170 can be set to 1 to enable using the Enter command to write parameters to EEPROM even during operation. 1-9 2 Chapter 2 Design 2-1 2-2 Installation Wiring Design 2-1

Installation Chapter 2 2-1-1 Dimensions D 3G3MV-A2001 to 3G3MV-A2007 (0.1 to 0.75 kW) 3-phase 200-V AC Input 3G3MV-AB001 to 3G3MV-AB004 (0.1 to 0.4 kW) Single-phase 200-V AC Input Rated voltage g 3-phase 200 V AC p Model 3G3MVA2001 A2002 A2004 A2007 AB001 AB002 AB004 76 76 108 128 76 76 131 Dimensions (mm) D 3 3 5 3 3 3 5 t Weight ( g ) g (kg) Approx. 0.6 Approx. 0.6 Approx. 0.9 Approx. 1.1 Approx. 0.6 Approx. 0.6

7 Approx. 1.0 Single-phase 200 V AC gp 2-2 Design Chapter 2 D 3G3MV-A2015 to 3G3MV-A2022 (1.5 to 2.2 kW) 3-phase 200-V AC Input 3G3MV-AB007 to 3G3MV-AB015 (0.75 to 1.5 kW) Single-phase 200-V AC Input 3G3MV-A4002 to 3G3MV-A4022 (0.2 to 2.2 kW) 3-phase 400-V AC Input Four, 5 dia. Rated voltage g 3-phase 200 V AC p Single-phase 200 V AC gp 3-phase 400 V AC p Model 3G3MVA2015 A2022 AB007 AB015 A4002 A4004 A4007 A4015 A4022 Dimensions (mm) D 131 140 140 156 92 110 140 156 156 Weight ( g ) g (kg) Approx. 1.4 Approx. 1.5 Approx. 1.5 Approx. 1.5 Approx. 1.0 Approx. 1.1 Approx. 1.5 Approx. 1.

5 Approx. 1.5 2-3 Design D 3G3MV-A2037 (3.7 kW) 3-phase 200-V AC Input 3G3MV-AB022 (2.2 kW) Single-phase 200-V AC Input 3G3MV-A4037 (3.7 kW) 3-phase 400-V AC Input Chapter 2 Four, 5 dia. Rated voltage g 3-phase 200 V AC Single-phase 200 V AC 3-phase 400 V AC Model 3G3MVA2037 AB022 A4037 Dimensions (mm) D 143 163 143 Weight ( g ) g (kg) Approx. 2.1 Approx. 2.2 Approx. 2.1 D 3G3MV-AB037 (3.7 kW) Single-phase 200-V AC Input Four, 5 dia. Rated voltage g Single-phase 200 V AC Model 3G3MVA037 Dimensions (mm) D 180 Weight ( g ) g (kg) Approx. 2.9 2-4 Design D 3G3MV-A2055 to -A2075 (5.5 to 7.5 kW) 3-phase 200-V AC Input 3G3MV-A4055 to -A4075 (5.5 kW to 7.5 kW) 3-phase 400-V AC Input Two, 6 dia. Chapter 2 Rated voltage g 3-phase 200 V AC 3-phase 200 V AC 3-phase 400 V AC 3-phase 400 V AC Model 3G3MVA2055 A2075 A4055 A4075 Dimensions (mm) D 170 170 170 170 Weight ( g ) g (kg) Approx. 4.6 Approx. 4.8 Approx. 4.8 Approx. 4.8 2-5 Design 2-1-2 Installation Conditions H Installation Precautions ! Chapter 2 WARNING Provide an appropriate stopping device on the machine side to secure safety.

(A holding brake is not a stopping device for securing safety.) Not doing so may result in injury. Provide an external emergency stopping device that allows an instantaneous stop of operation and power interruption. Not doing so may result in injury. Be sure to install the product in the correct direction and provide specified clearances between the Inverter and control panel or with other devices.

Not doing so may result in fire or malfunction. Do not allow foreign objects to enter inside the product. Doing so may result in fire or malfunction. Do not apply any strong impact. Doing so may result in damage to the product or malfunction. ! WARNING ! Caution ! Caution ! Caution H Installation Direction and Dimensions · Install the Inverter under the following conditions. Ambient operating temperature: Panel-mounting models (conforming to IP20): 10 to 50°C (0.1- to 3.7-kW Inverters) Closed wall-mounting models (conforming to NEMA1 and IP20): 10 to 40°C (5.



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