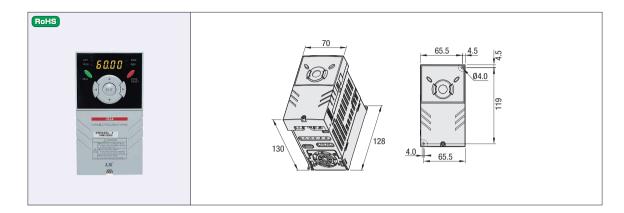
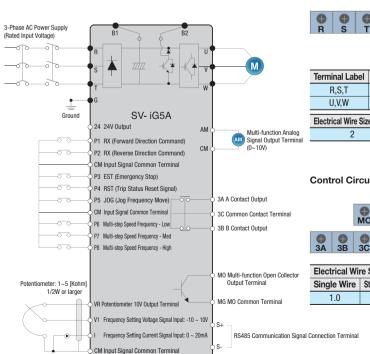
# **Inverter Overview**



### ■ Basic Specifications

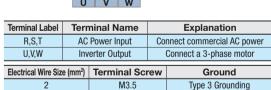
| MISUMI Part Number |                             | SV004-IG5A-2  |                              |  |  |  |
|--------------------|-----------------------------|---|------------------------------|--|--|--|
|                    | Motor Power Rating (kW)     | 0.4   | Spontaneous                  | 15msec. or less: Continued Operation                           |  |  |
| Specification      | Rated Input Voltage (V)     | Three-phase 200~230V (+10%, -15%)   | Power Interruption           | 15msec. or more: Automatic Re-start Operation Possible         |  |  |
|                    | Rated Input Frequency (Hz)  | 50~60   | Protection                   | Open (IP20)  |  |  |
|                    | Rated Output Power (kVA)    | 0.95  | Ambient Temperature          | -10~+50°C<br>Relative Humidity 90%RH or less (No condensation) |  |  |
|                    | Rated Output Current (A)    | 2.5   | Ambient Humidity             |  |  |  |
|                    | Rated Output Frequency (Hz) | 0.1~400   | Altitude, Vibrations         | 1,000m or less, 5.9m/sec2 (0.6G) or less                       |  |  |
|                    | Weight (kg)                 | 0.76  | Ambient Atmospheric Pressure | 70~106kPa  |  |  |
|                    | Cooling                     | Naturally Cooled  | Environment                  | No corrosive gas, flammable gas, oil mist, dust in room        |  |  |
| Operations         |                             | Choose from: Main Unit / Terminal Block / Communications / Remote Loader Analog 0~10 (V), -10~10 (V), 0~20 (mA), 4~20 (mA) Digital Keypad (Main Unit) |                              |  |  |  |

### Terminal Diagram

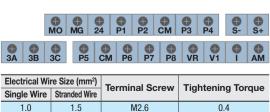


#### **Power Circuit Terminals**

B1 B2



# **Control Circuit Terminals**



### Inverter Initial Settings

The default Inverter configuration is set to operate RUN/STOP button, and the frequency is changed with the cursor keys on the main unit.

| Item                         | Parameter        |  |
|------------------------------|------------------|--|
| Operations                   | Main Unit        |  |
| Output Frequency [Hz]        | 50               |  |
| Display                      | Output Frequency |  |
| Direction                    | Forward Rotation |  |
| Accel./Decel. Time [Sec.]    | 3 Seconds        |  |
| Frequency Setting Range [Hz] | 10-120           |  |

See the inverter manual for the setting changes.

# Motor Connection Diagram AC Power Supply — 1

| Inverter Output | ter Output Panasonic Oriental |       | Taiwanese |  |  |
|-----------------|-------------------------------|-------|-----------|--|--|
| U               | White                         | Red   | Yellow    |  |  |
| V               | Gray                          | White | Black     |  |  |
| W               | Black                         | Black | White     |  |  |

If rotates in reverse direction: Swap two of the leads.

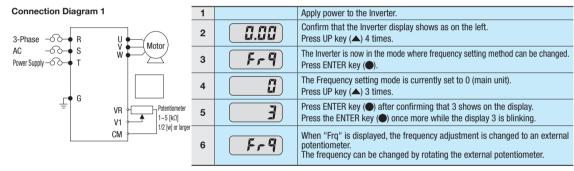
Reverse the inverter directional command.

### Operation

- 1. Wire according to the connection diagram.
- Be sure to properly connect Power: R, S, T, Outputs: U, V, W wires. If incorrectly wired, the Inverter may be damaged.
- 2. When the power is turned ON and RUN button is pressed, the conveyor will start. If the default run direction needs to be reversed, re-adjust the unit accordingly.

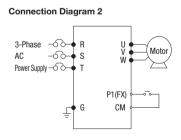
# Example

Example 1: Using a potentiometer to vary the speed, and starting and stopping with the RUN/STOP key on the main unit.



The work of the wariable frequency will be 60Hz or below. If speed increase is desired, use the keypad on the main unit.

### Example 2: When setting the speed at the main unit, and starting and stopping with a switch wired to the terminal block.



| 1 |      | Apply power to the Inverter.  |  |
|---|------|---|--|
| 2 | 0.00 | Confirm that the Inverter display shows as on the left.  Press UP key ( ) 3 times.  |  |
| 3 | dru  | The Inverter is now in the mode where operation command method can be changed. Press ENTER key $(lacksquare$ ).                       |  |
| 4 |      | The operation command mode is currently set to 0 (main unit).  Press DOWN key (▼).  |  |
| 5 |      | Press ENTER key (●) after confirming that 1 shows on the display.  Press the ENTER key (●) once more while the display 1 is blinking. |  |

### Cautions on BIDIRECTIONAL operations

For bidirectional operation, conveyors with the guided belts are recommended.

Belts without the guide are adjusted for the lateral movement with the default direction at the time of shipping, and the belt may start to have lateral movement or slack.