


## Improved Design for a More Lightweight Construction and Reduced Standby Power Consumption.

- Standby power reduced to 85% or less of previous models. (Applicable to 61F-GN.)
- Weighs only 85% or less of previous models. (Applicable to 61F-G3N/-G4N.)
- Easy identification of operating status with LED operation indicator.
- Increased reliability of internal relay (micro load: 5 VDC, 1 mA) to enable PLC input.
- Electrode terminals and other wiring terminals are separated for easy wiring.
- Select from three mounting methods: JEM, DIN rail mounting, or screw mounting.

**Note:** LED operation indicator is provided on Controllers manufactured in August 1999 or later.

 Refer to *Safety Precautions for Floatless Level Controllers*.



## Model Number Structure

### Model Number Legend

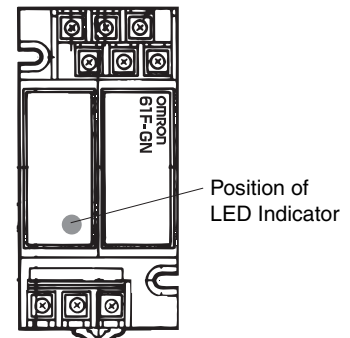
61F-□N□  
1 2

#### 1. Controller Application

- G: Automatic water supply and drainage
- G1: Automatic water supply with idling prevention or water shortage alarm
- G2: Automatic water supply and drainage with abnormal water increase alarm
- G3: Automatic water supply and drainage with full tank and water shortage alarm
- G4: Automatic water supply with water level indicator for water supply tank and water receiving tank and prevention of idling due to water shortage
- I: Liquid level indication and alarm (no two-wire models)

#### 2. Type

- Blank: General-purpose
- L 2KM: Long-distance (for 2 km)
- L 4KM: Long-distance (for 4 km)
- H: High-sensitivity
- D: Low-sensitivity
- R: Two-wire



**Note:** LED indicator is provided on Controllers manufactured in August 1999 or later. It is not mounted on the case surface. It can be seen through the case.

## Ordering Information

Classification by application			Set contents	General-purpose	Long-distance (between Controller and Electrodes) (See note 2.)	High-sensitivity (for high specific resistance)	Low-sensitivity (for low specific resistance)	Two wire
Classification by control purpose								
Controller	GN Models	◆	61F-GN Base x 1 61F-11□ Units x 1	61F-GN	61F-GNL	61F-GNH	61F-GND	61F-GNR
	G1N Models	▲ w/pump idling prevention	61F-G1N Base x 1 61F-11□ Units x 2	61F-G1N	61F-G1NL	61F-G1NH	61F-G1ND	61F-G1NR
		▲ w/alarm for abnormally low level						
	G2N Models	◆ w/alarm for abnormally high level	61F-G2N Base x 1 61F-11□ Units x 2	61F-G2N	61F-G2NL	61F-G2NH	61F-G2ND	61F-G2NR
	G3N Models	◆ w/alarm for abnormally high and low levels	61F-G3N Base x 1 61F-11□ Units x 3	61F-G3N	61F-G3NL	61F-G3NH	61F-G3ND	61F-G3NR
	G4N Models	▲ w/level display of water source and tank	61F-G4N Base x 1 61F-11□ Units x 5 MY3 Relay x 1	61F-G4N	61F-G4NL	61F-G4NH	61F-G4ND	61F-G4NR
	IN Models	Level indication with alarm	61F-IN Base x 1 61F-11□ Units x 2	61F-IN	61F-INL	61F-INH	61F-IND	61F-INR
Relay unit			61F-11□ Units x 1	61F-11N	61F-11NL	61F-11NH	61F-11ND	61F-11NR

- Note:** 1. ◆: Automatic water supply and drainage control, ▲: Automatic water supply control
2. Subclassified into 2 km and 4 km models according to the model of relay unit used. Specify 2 km or 4 km when ordering.
3. When ordering, specify the desired operating voltage at the end of the model number.  
Example: 61F-GN[110/220 VAC]  
\_\_\_\_\_ Desired supply voltage
4. Contact your OMRON representative for products with voltages other than those listed above.
5. If you order with a standard model number, the corresponding Relay Units are also delivered as part of a set.  
If you order the 61F-GN, one 61F-11 Relay Unit is included in the set.

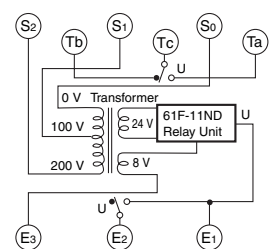
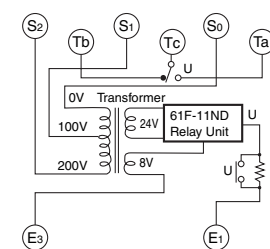
# Specifications

## Standard Models

Items	Type	General-purpose Controllers 61F-□N	Long-distance Controllers 61F-□NL 2KM (2 km) 61F-□NL 4KM (4 km)	High-sensitivity Controllers 61F-□NH
Controlling materials and operating conditions		For control of ordinary purified water and wastewater	For control of ordinary purified water and wastewater. Particularly in cases where the distance between the pumps and water tanks or between supply and receiver tanks are far apart or where remote control is required.	For control of liquids with high specific resistance, such as distilled water
Rated voltage		100/200, 110/220 or 120/240 VAC, 50/60 Hz (both supported on same model)		
Allowable voltage fluctuation range		85% to 110% of rated voltage		
Inter-electrode voltage		8 VAC		
Inter-electrode current		Approx. 1 mA AC max.		
Power consumption		GN□: 3 VA max., G1N□, G2N□, IN□: 4 VA max., G3N□: 5.5 VA max., G4N□: 8.5 VA max.		
Inter-electrode operation resistance (recommended values)		0 to approx. 4 kΩ	0 to 1.8 kΩ (for 2 km) 0 to 0.7 kΩ (for 4 km)	Approx. 10 kΩ to 40 kΩ (See note 4.)
Inter-electrode release resistance (recommended values)		Approx. 15 k to ∞Ω	4 k to ∞Ω (for 2 km) 2.5 k to ∞Ω (for 4 km)	Approx. 100 k to ∞Ω
Cable length (See note 2.)		1 km max.	2 km max. 4 km max.	50 m max.
Output		3 A, 200 VAC (Resistive load)		
Ambient operating temperature		-10 to 55°C		
Ambient operating humidity		45% to 85%		
Insulation resistance (See note 3.)		100 MΩ min. (at 500 VDC)		
Dielectric strength (See note 3.)		2,000 VAC, 50/60 Hz for 1 min.		
Life expectancy		Electrical: 250,000 operations min. Mechanical: 10,000,000 operations min.		
Weight		GN models: 315 g; G1N, G2N, IN models: 410 g; G3N models: 625g; G4N models: 870 g		
Internal Circuit Diagrams		Example: 61F-GN 	Example: 61F-GNL 	Example: 61F-GNH 

**Note:** 1. The □ in the model name represents G, G1, G2, G3, G4, or I.

- The length when using completely insulated, 600-V, 3-core (0.75 mm<sup>2</sup>) cabtire cables. Usable cable lengths will become shorter as the cable diameter or number of cores becomes larger due to increased floating capacity. For details, refer to *Safety Precautions for Floatless Level Controllers*.
- The insulation resistance and dielectric strength are the values between power terminals and Electrode terminals, between power terminals and contact terminals, and between Electrode terminals and contact terminals. For details, refer to *Safety Precautions for Floatless Level Controllers*.
- Application is possible with 10 kΩ or less, however, this may cause reset failures.

Items	Type	Low-sensitivity Controller 61F-□ND	Two-wire Controller 61F-□NR
<b>Controlling materials and operating conditions</b>		For control of liquids with low specific resistance, such as salt water, wastewater, acid chemicals, or alkaline chemicals	For control of ordinary purified water or wastewater. Used with a Two-wire Electrode Holder (incorporating a resistor of 6.8 k $\Omega$ )
<b>Rated voltage</b>		100/200, 110/220 or 120/240 VAC, 50/60 Hz (supported by the same model)	
<b>Allowable Voltage Fluctuation</b>		85% to 110% of rated voltage	
<b>Inter-electrode voltage</b>		8 VAC	
<b>Inter-electrode current</b>		Approx. 1 mA AC max.	
<b>Power consumption</b>		GN□: 3 VA max., G1N□, G2N□, IN□: 4 VA max., G3N□: 5.5 VA max., G4N□: 8.5 VA max.	
<b>Inter-electrode operation resistance (recommended values)</b>		0 to approx. 1.8 k $\Omega$	Approx. 0 to 1.1 k $\Omega$
<b>Inter-electrode release resistance (recommended values)</b>		Approx. 5 k to $\infty$ $\Omega$	Approx. 15 k to $\infty$ $\Omega$
<b>Cable length (See note 2.)</b>		1 km max.	800 m max.
<b>Output</b>		3 A, 200 VAC (Resistive load)	
<b>Ambient operating temperature</b>		-10 to 55°C	
<b>Ambient operating humidity</b>		45% to 85%	
<b>Insulation resistance (See note 3.)</b>		100 M $\Omega$ min. (at 500 VDC)	
<b>Dielectric strength (See note 3.)</b>		2,000 VAC, 50/60 Hz for 1 min.	
<b>Life expectancy</b>		Electrical: 250,000 operations min. Mechanical: 10,000,000 operations min.	
<b>Weight</b>		GN models: 315 g; G1N, G2N, IN models: 410 g; G3N models: 625g; G4N models: 870 g	
<b>Internal Circuit Diagrams</b>		Example: 61F-GND 	Example: 61F-GNR 

- Note:**
- The □ in the model name represents G, G1, G2, G3, G4, or I.
  - The length when using completely insulated, 600-V, 3-core (0.75 mm<sup>2</sup>) cabtire cables. Usable cable lengths will become shorter as the cable diameter or number of cores becomes larger due to increased floating capacity. For details, refer to *Safety Precautions for Floatless Level Controllers*.
  - The insulation resistance and dielectric strength are the values between power terminals and Electrode terminals, between power terminals and contact terminals, and between Electrode terminals and contact terminals. For details, refer to *Safety Precautions for Floatless Level Controllers*.
  - Application is possible with 10 k $\Omega$  or less, however, this may cause reset failures.

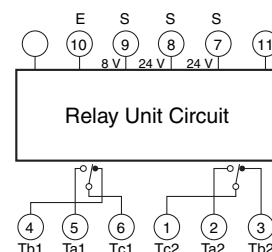
## Relay Unit

The Relay Unit can be replaced without removing the wires for maintenance inspections. It can also be replaced with other Relay Units.

## Compatibility with General Purpose Model (61F-11N)

<b>General-purpose Controller</b>	61F-11N	---
<b>Long-distance Controllers</b>	61F-11NL (for 2 km) 61F-11NL (for 4 km)	Provided
<b>High-sensitivity Controllers</b>	61F-11NH	
<b>Low-sensitivity Controller</b>	61F-11ND	
<b>Two-wire Controller</b>	61F-11NR	Not provided

## Terminal Arrangement



### Ordering Example

If you order the components listed above, the corresponding Relay Unit will be supplied with the Controller.

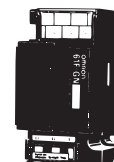
Example: If a 61F-GN Controller is ordered, a 61F-11N Relay Unit will also be included.

## ■ Connections

### Automatic Water Supply Control

Compact Model  
61F-GN

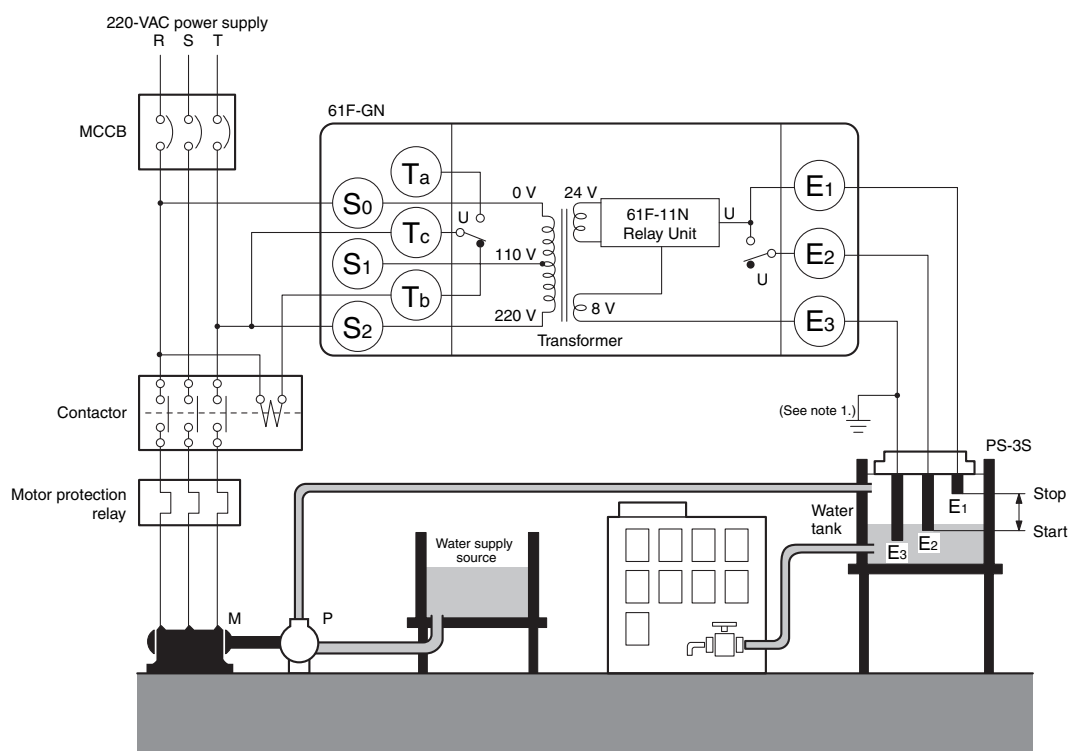
Dimensions  
page 16



#### Automatic Water Supply Control

##### Connections

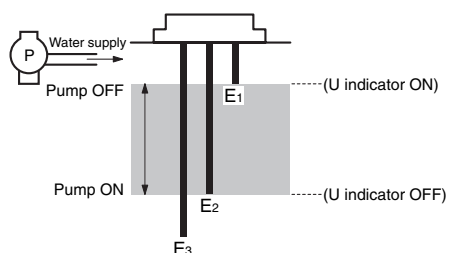
- Connect contactor coil terminal to Tb.
- Connect to power supply terminals.  
S<sub>0</sub>-S<sub>1</sub>: 110 VAC  
S<sub>0</sub>-S<sub>2</sub>: 220 VAC



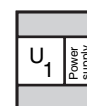
**Note:** 1. Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).  
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

##### Principles of Operation

The pump stops (U indicator ON) when the water level reaches E<sub>1</sub> and starts (U indicator OFF) when the water level drops below E<sub>2</sub>.



##### Relay Unit Layout



Automatic Drainage Control

Compact Model  
61F-GN

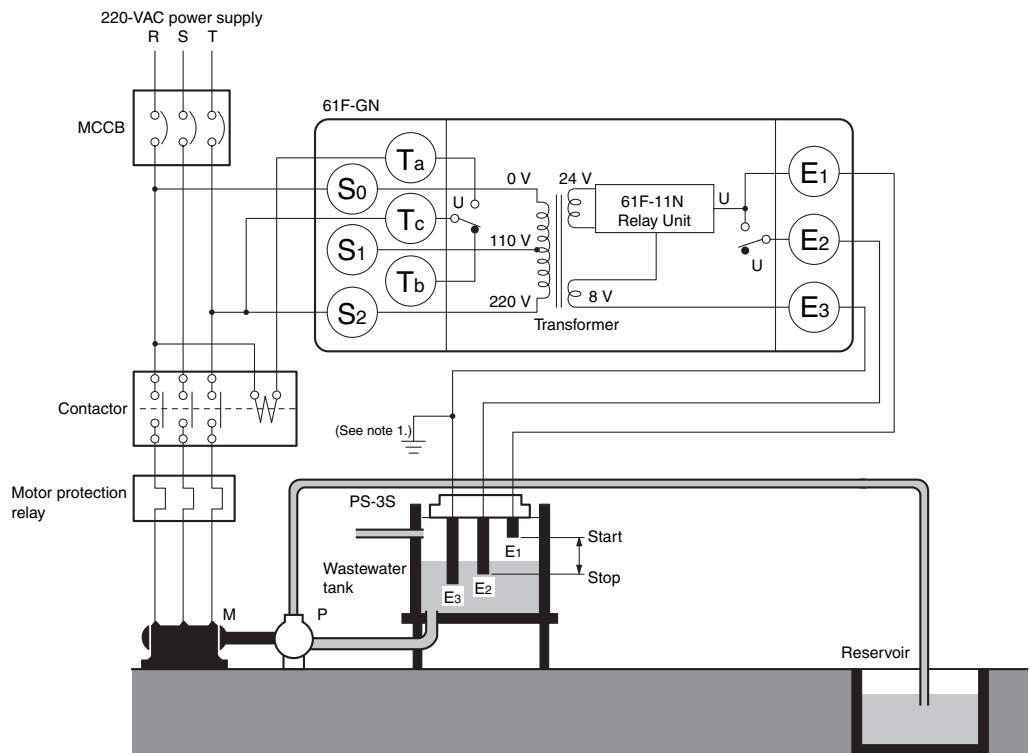
Dimensions  
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Automatic Drainage Control

Connections

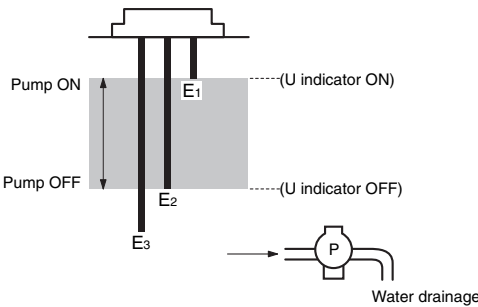
- Connect the contactor coil terminal to Ta.
- Connect to power supply terminals.  
S<sub>0</sub>-S<sub>1</sub>: 110 VAC  
S<sub>0</sub>-S<sub>2</sub>: 220 VAC



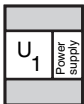
**Note: 1.** Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).  
**2.** The above wiring diagram is for a rated voltage of 110/220 VAC.

Principles of Operation

- The pump starts (U indicator ON) when the water level reaches E<sub>1</sub> and stops (U indicator OFF) when the water level drops below E<sub>2</sub>.



Relay Unit Layout



## Compact Model 61F-G1N

**Dimensions**  
**page 16**

## Connections

- ## Test Operation/ Recovering from Power Interruptions

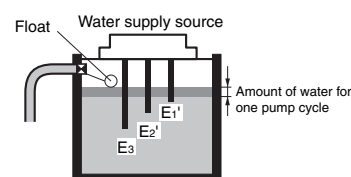
[illegible]

**Note:**

1. Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

The diagram illustrates a water supply system with two tanks. The top tank, labeled "Water supply source", has a float switch with contacts  $E_1'$  (U1 indicator ON) and  $E_2'$  (U1 indicator OFF). The bottom tank, labeled "Water tank", has a float switch with contacts  $E_1$  (U2 indicator ON) and  $E_2$  (U2 indicator OFF). A pump (P) is connected to the bottom tank, with a "Pump OFF" position and a "Pump ON" position indicated by arrows. A "Water shortage" alarm is shown with a bell (B) and a light (L) connected to the float switch in the top tank.

- **Length of Electrode E1'**  
When installing the Controller in locations where there is a possibility of momentary power interrupts or blackouts, the length of E1' should be made so that the amount of water corresponding to one pump cycle does not expose the Electrodes. This will prevent the E2' self-holding circuit from failing.







# Automatic Water Supply with Abnormal Water Increase Alarm

## Compact Model 61F-G2N

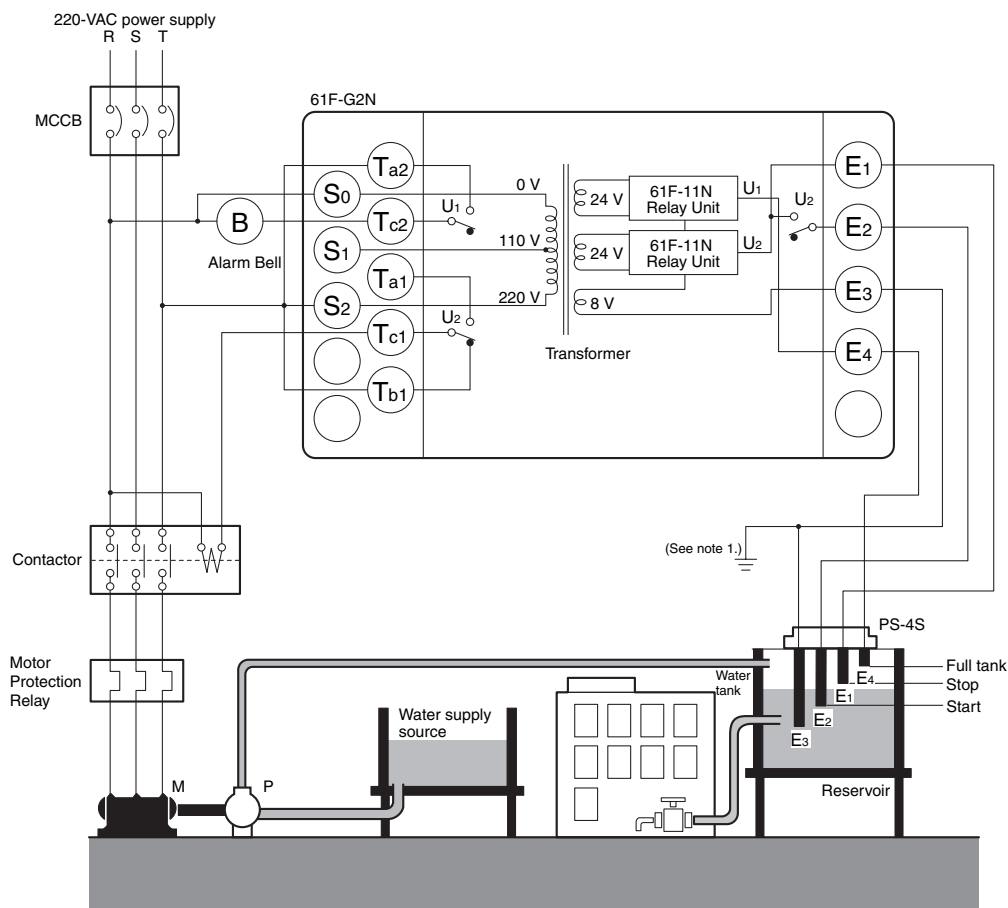
Dimensions  
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### Automatic Water Supply with Abnormal Water Increase Alarm

#### Connections

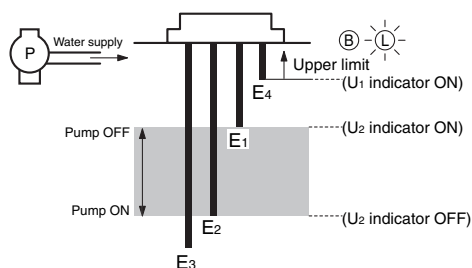
- Connect power supply terminal  $S_2$  to terminal  $T_{b1}$ .
- Connect to power supply terminals.  
 $S_0$ - $S_1$ : 110 VAC  
 $S_0$ - $S_2$ : 220 VAC



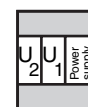
**Note: 1.** Be sure to ground the common Electrode  $E_3$  (the longest Electrode).  
**2.** The above wiring diagram is for a rated voltage of 110/220 VAC.

#### Principles of Operation

- The pump starts ( $U_2$  indicator OFF) when the water level reaches  $E_2$  and stops ( $U_2$  indicator ON) when the water level rises above  $E_1$ .
- If the water level reaches  $E_4$  for any reason, an alarm is given ( $U_1$  indicator ON).

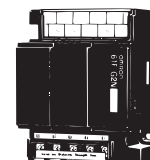


#### Relay Unit Layout



## Automatic Drainage Control with Abnormal Water Increase Alarm

## Compact Model 61F-G2N

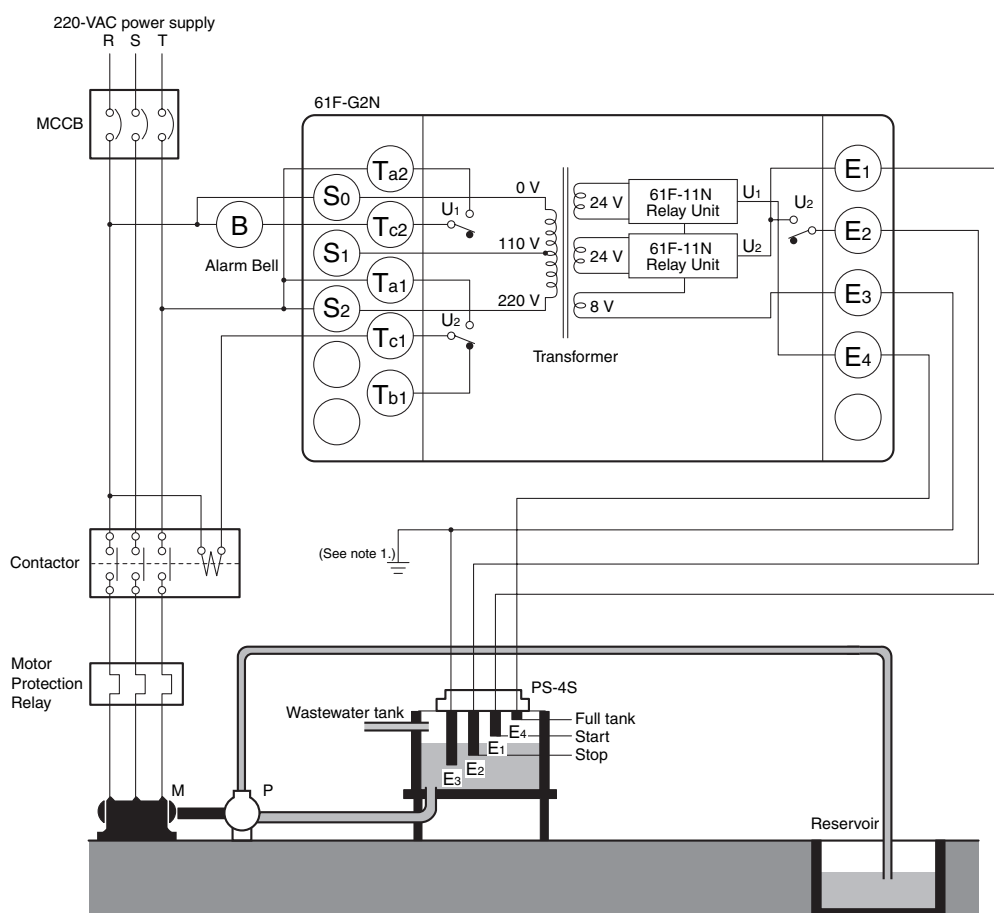


**Dimensions**  
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### Automatic Drainage Control with Abnormal Water Increase Alarm

## Connections

- Connect power supply  $S_2$  to terminal  $Ta_1$ .
- Connect to power supply terminals.  
 $S_0$ - $S_1$ : 110 VAC  
 $S_0$ - $S_2$ : 220 VAC

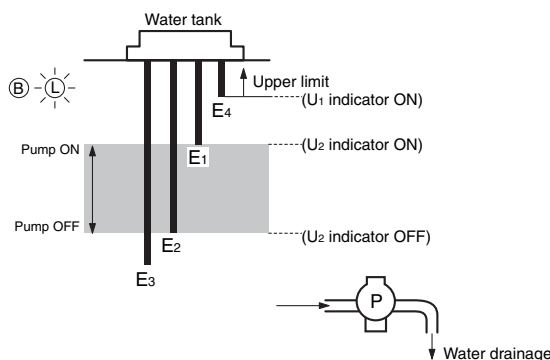


**Note:**

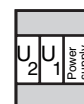
1. Be sure to ground the common Electrode E<sub>5</sub> (the longest Electrode).
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

## Principles of Operation

- The pump starts ( $U_2$  indicator ON) when the water level reaches  $E_1$  and stops ( $U_2$  indicator OFF) when the water level drops below  $E_2$ .
- If the water level reaches  $E_4$  for any reason, an alarm is given ( $U_1$  indicator ON).



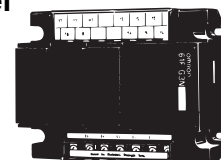
### Relay Unit Layout



# Automatic Water Supply Control with Full Tank and Water Shortage Alarm

Compact Model  
61F-G3N

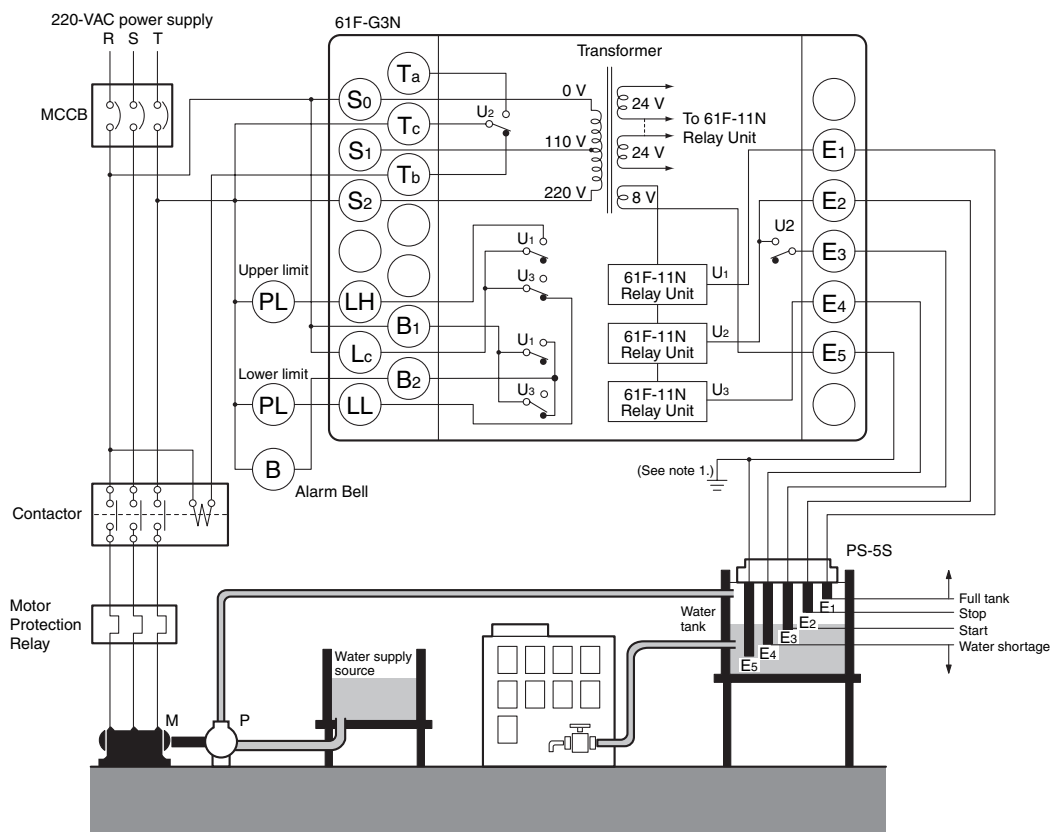
Dimensions  
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## Automatic Water Supply Control with Full Tank and Water Shortage Alarm

### Connections

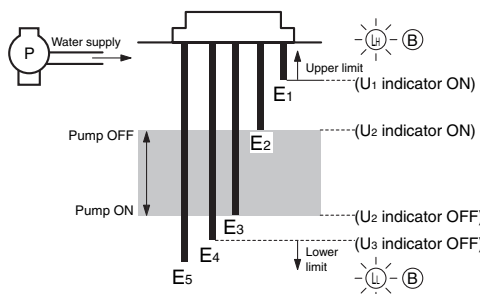
- Connect contactor coil terminal to Tb.
- Connect to power supply terminals.  
S<sub>0</sub>-S<sub>1</sub>: 110 VAC  
S<sub>0</sub>-S<sub>2</sub>: 220 VAC



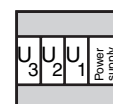
- Note: 1.** Be sure to ground the common Electrode E<sub>5</sub> (the longest Electrode).  
**2.** The above wiring diagram is for a rated voltage of 110/220 VAC.

### Principles of Operation

- The pump starts (U<sub>2</sub> indicator ON) when the water level reaches E<sub>2</sub> and stops (U<sub>2</sub> indicator OFF) when the water level drops below E<sub>3</sub>.
- If the water level rises to E<sub>1</sub> for any reason, the upper-limit indicator turns ON and an alarm is given (U<sub>1</sub> indicator ON). If the water level drops below E<sub>4</sub> for any reason, the lower-limit indicator turns ON and an alarm is given (U<sub>3</sub> indicator OFF).



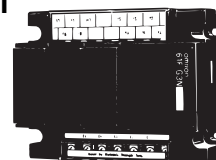
### Relay Unit Layout



# Automatic Drainage Control with Full Tank and Water Shortage Alarm

Compact Model  
61F-G3N

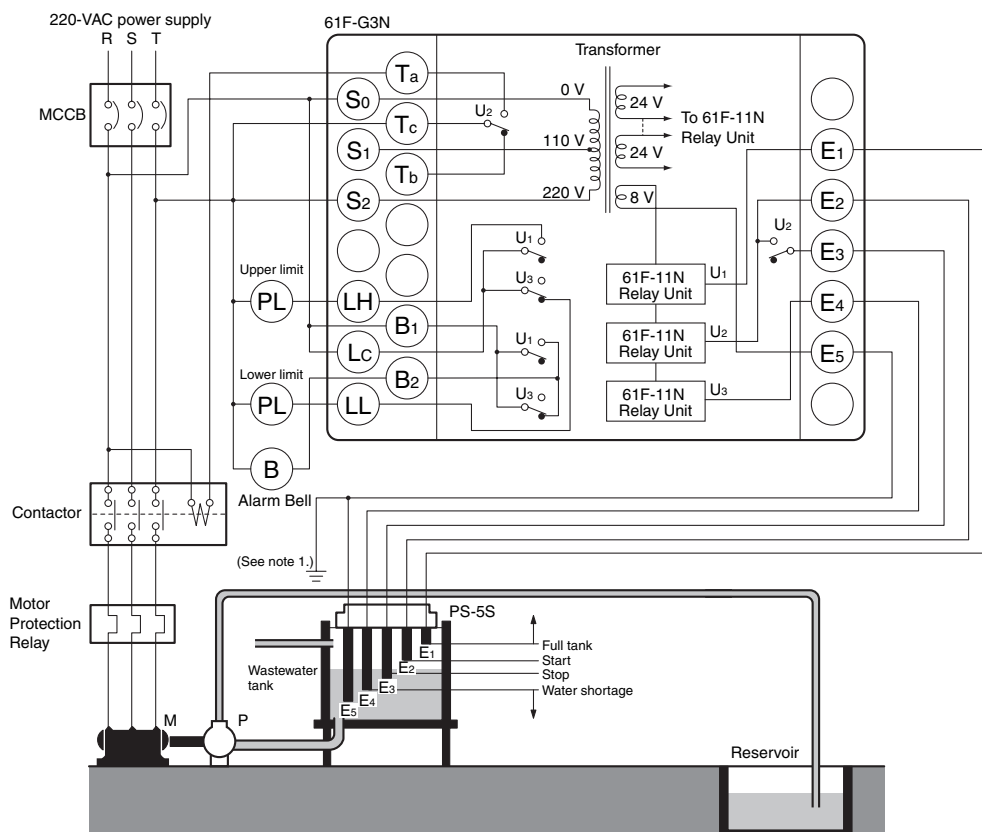
Dimensions  
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## Automatic Drainage Control with Full Tank and Water Shortage Alarm

### Connections

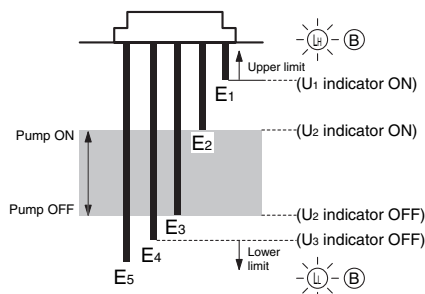
- Connect contactor coil terminal to Ta.
- Connect to power supply terminals.  
S<sub>0</sub>-S<sub>1</sub>: 110 VAC  
S<sub>0</sub>-S<sub>2</sub>: 220 VAC



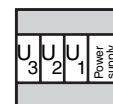
- Note:** 1. Be sure to ground the common Electrode E<sub>5</sub> (the longest Electrode).  
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

### Principles of Operation

- The pump starts (U<sub>2</sub> indicator ON) when the water level reaches E<sub>2</sub> and stops (U<sub>2</sub> indicator OFF) when the water level reaches E<sub>3</sub>.
- If the water level rises to E<sub>1</sub> for any reason, the upper-limit indicator turns ON and an alarm is given (U<sub>1</sub> indicator ON). If the water level drops below E<sub>4</sub> for any reason, the lower-limit indicator turns ON and an alarm is given (U<sub>3</sub> indicator OFF).



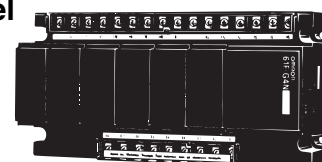
### Relay Unit Layout



# Water Source Level Indication with Prevention of Pump Idling Due to Water Shortage, and Automatic Water Supply Control with Indication of Water Level in Elevated Tank

## Compact Model 61F-G4N

Dimensions  
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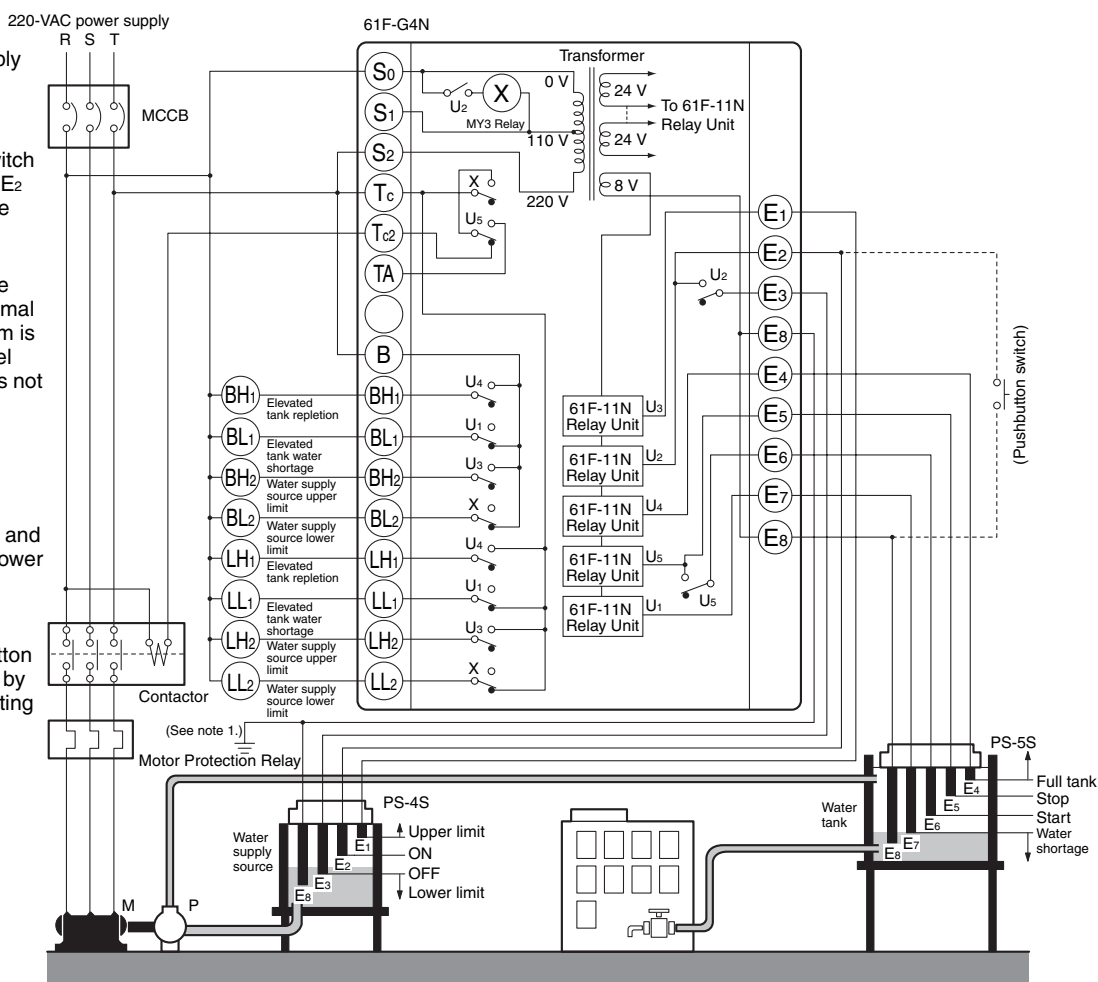
### Water Source Level Indication with Prevention of Pump Idling Due to Water Shortage, and Automatic Water Supply Control with Indication of Water Level in Elevated Tank

#### Connections

- Connect to power supply terminals.  
S0-S1: 110 VAC  
S0-S2: 220 VAC
- Insert a pushbutton switch (NO contact) between E<sub>2</sub> and E<sub>8</sub> as shown by the dotted line.
- Do not press the pushbutton switch if the pump stops during normal operation after an alarm is given for low water level (i.e., the water level has not reached E<sub>3</sub>).

#### Test Operation/ Recovering from Power Interruptions

When starting the pump and after recovering from a power interruption, if the water source level has not yet reached E<sub>2</sub> (U<sub>2</sub> indicator OFF), press the pushbutton switch to start the pump by momentarily short-circuiting E<sub>2</sub> and E<sub>8</sub>.

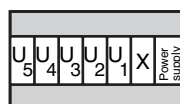


**Note:** 1. Be sure to ground the common Electrode E<sub>8</sub> (the longest Electrode).  
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

#### Principles of Operation

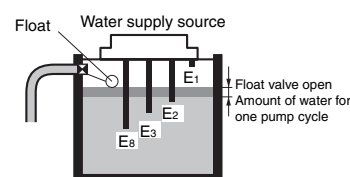
- Insert four Electrodes in the water supply source and five Electrodes in the elevated water tank.
- The lower-limit indicator for the water supply source remains ON while the water source level is below E<sub>3</sub> (U<sub>2</sub> indicator OFF).
- When the water level rises to E<sub>2</sub>, the lower-limit indicator turns OFF (U<sub>2</sub> indicator ON) and the pump is ready for operation.
- When the water level reaches E<sub>1</sub>, the upper-limit indicator turns ON (U<sub>3</sub> indicator ON).
- The water-shortage indicator for the elevated tank remains ON while the water level in the elevated tank is below E<sub>7</sub>. The indicator turns OFF (U<sub>1</sub> indicator ON) when the water level rises to E<sub>7</sub>.
- The pump stops (U<sub>5</sub> indicator ON) when the water level reaches E<sub>5</sub> and starts (U<sub>5</sub> indicator OFF) when the water level drops below E<sub>6</sub>.
- If the water level reaches E<sub>4</sub> for any reason, the tank repletion indicator for the elevated tank turns ON (U<sub>4</sub> indicator ON).

#### Relay Unit Layout

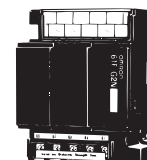


#### Precaution

- Length of Electrode E<sub>2</sub>**  
When installing the Controller in locations where there is a possibility of momentary power interruptions or blackouts, the length of E<sub>2</sub> should be made so that the amount of water corresponding to one pump cycle does not expose the Electrodes. This will prevent the E<sub>3</sub> self-holding circuit from failing.



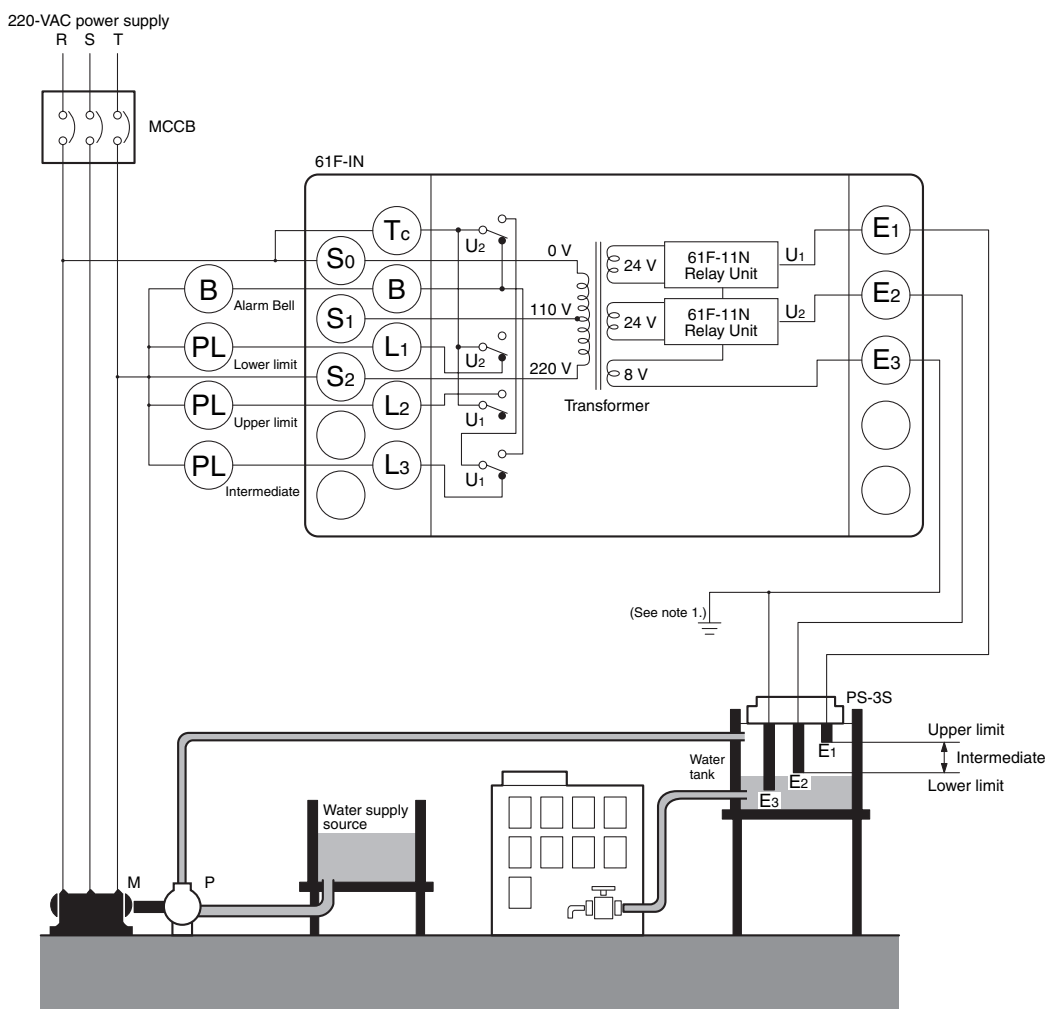
## Liquid Level Indication and Alarm

Compact Model  
61F-INDimensions  
page 16

## Liquid Level Indication and Alarm

## Connections

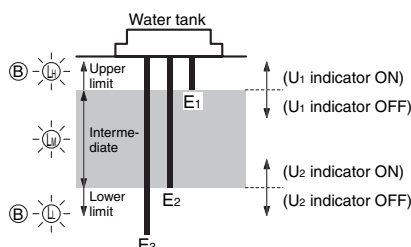
- Connect to power supply terminals.  
S<sub>0</sub>-S<sub>1</sub>: 110 VAC  
S<sub>0</sub>-S<sub>2</sub>: 220 VAC



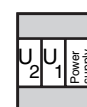
- Note:** 1. Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).  
2. The above wiring diagram is for a rated voltage of 110/220 VAC.

## Principles of Operation

- When the water level drops below E<sub>2</sub>, the lower-limit indicator turns ON and an alarm is given (U<sub>2</sub> indicator OFF).
- When the water level reaches E<sub>2</sub>, the alarm turns OFF and the intermediate indicator turns ON (U<sub>2</sub> indicator ON).
- When the water level rises to E<sub>1</sub>, the upper-limit indicator turns ON and an alarm is given (U<sub>1</sub> indicator ON).



## Relay Unit Layout



## Two-wire Connection

The wiring between the 61F Controller and the Electrodes can be reduced by removing the self-hold circuit. This arrangement is called a two-wire connection. Three Electrodes are still required. Both the 61F Controller (including the Relay Unit) and Electrode Holder must be two-wire models. Two-wire Electrode Holders have an in-built resistor of 6.8 kΩ 1W.

### Automatic Water Supply and Drainage Control

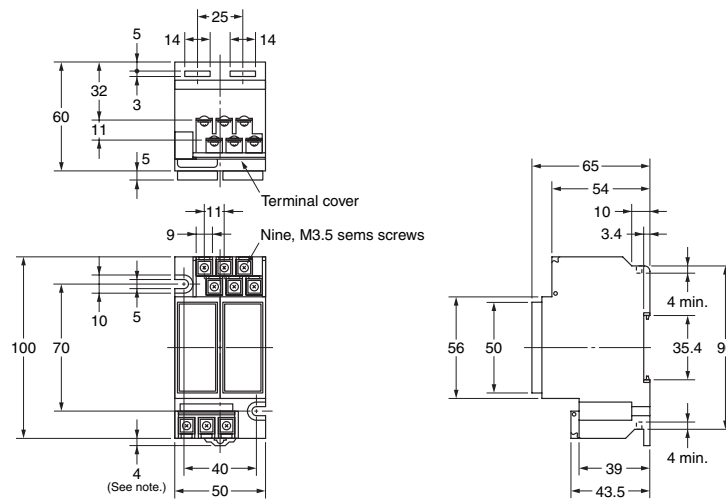
### Compact Model 61F-GNR

Dimensions  
page 16

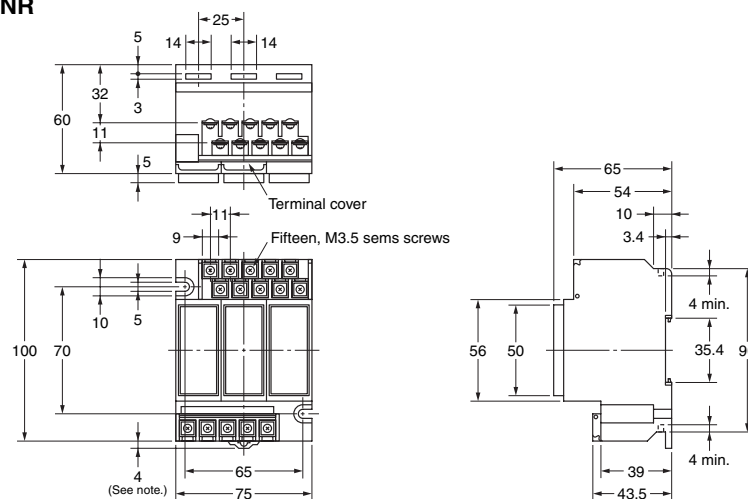


Automatic Water Supply Control	Automatic Drainage Control
<p><b>Connections</b></p> <p><b>Note: 1.</b> Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).</p> <p><b>2.</b> The above wiring diagram is for a rated voltage of 110/220 VAC.</p> <ul style="list-style-type: none"> <li>• Connect contactor coil terminal to Tb.</li> <li>• Connect to power supply terminals. S<sub>0</sub>-S<sub>1</sub>: 100 VAC S<sub>0</sub>-S<sub>2</sub>: 200 VAC</li> <li>• The two-wire models require only two cables for the connection between the 61F-GNR and the Electrode Holder, but still requires three Electrodes.</li> <li>• A Two-wire Electrode Holder must be used. (It has an inbuilt resistance R.)</li> <li>• The Relay Unit must also be for two-wire models.</li> </ul>	<p><b>Connections</b></p> <p><b>Note: 1.</b> Be sure to ground the common Electrode E<sub>3</sub> (the longest Electrode).</p> <p><b>2.</b> The above wiring diagram is for a rated voltage of 110/220 VAC.</p> <ul style="list-style-type: none"> <li>• Connect contactor coil terminal to Ta. (Do not connect Tb.)</li> <li>• Connect to power supply terminals. S<sub>0</sub>-S<sub>1</sub>: 100 VAC S<sub>0</sub>-S<sub>2</sub>: 200 VAC</li> <li>• The two-wire models require only two cables for the connection between 61F-GNR and the Electrode Holder, but still needs three Electrodes.</li> <li>• A Two-wire Electrode Holder must be used. (It has an inbuilt resistance R.)</li> <li>• The Relay Unit must also be for two-wire models.</li> </ul>
<p><b>Principles of Operation</b></p> <p>The pump stops (U indicator ON) when the water level reaches E<sub>1</sub> and starts (U indicator OFF) when water level drops below E<sub>2</sub>.</p>	<p><b>Principles of Operation</b></p> <p>The pump starts (U indicator ON) when the water level reaches E<sub>1</sub> and stops (U indicator OFF) when the water level drops below E<sub>2</sub>.</p>

**61F-GN, -GNL, -GNH, -GND, -GNR**



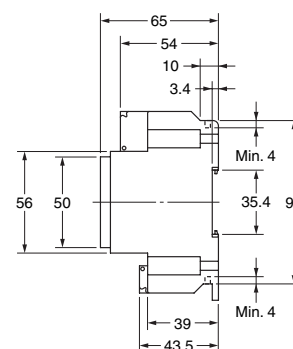
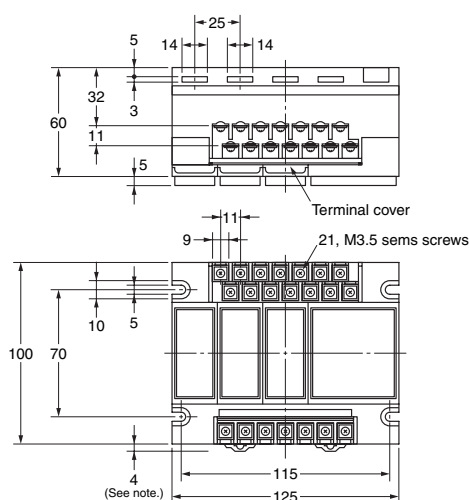
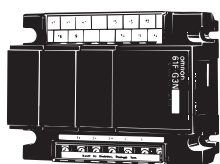
61F-G1N, -G1NL, -G1NH, -G1ND, -G1NR  
61F-G2N, -G2NL, -G2NH, -G2ND, G2NR  
61F-IN, -NL, -INH, -IND



**Note:** Dimensions are with the DIN rail mounting (sliding) bracket attached.

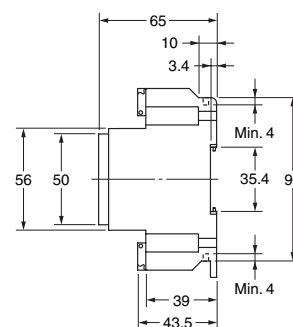
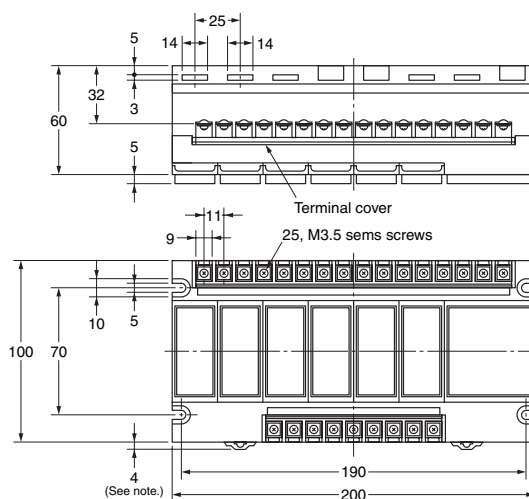
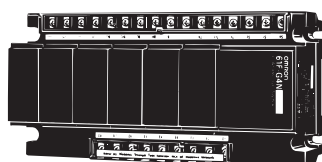


## 61F-G3N, -G3NL, -G3NH, -G3ND, -G3NR, -G3N-NGD



**Note:** Dimensions are with the DIN rail mounting (sliding) bracket attached.

## 61F-G4N, -G4NL, -G4NH, -G4ND, -G4NR, -G4N-KYD



**Note:** Dimensions are with the DIN rail mounting (sliding) bracket attached.

## ■ Safety Precautions

Refer to *Safety Precautions for All Level Controllers*.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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