

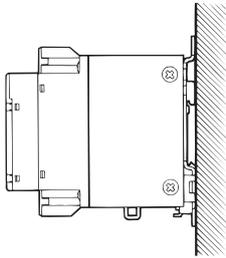
## ■ Safety Precautions

Refer to *Safety Precautions for All Solid State Relays*.

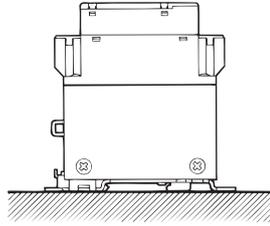
## ■ Precautions for Correct Use

### Mounting Method

#### Vertical

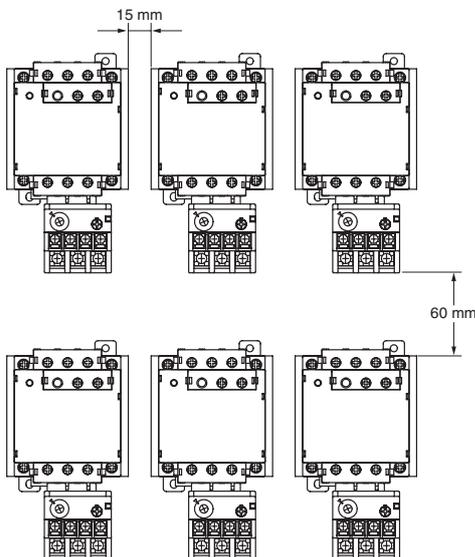


#### Horizontal



**Note:** When the G3J is mounted horizontally, the load current must be 50% of the rated load current if the G3J is used at a temperature exceeding 40°C.

### Close Mounting



**Note:** Minimum distances of 15 mm horizontally and 60 mm vertically are required between adjacent G3Js with thermal overload relays.

### Power Supply for Soft-start Models and Soft Start/Stop Models

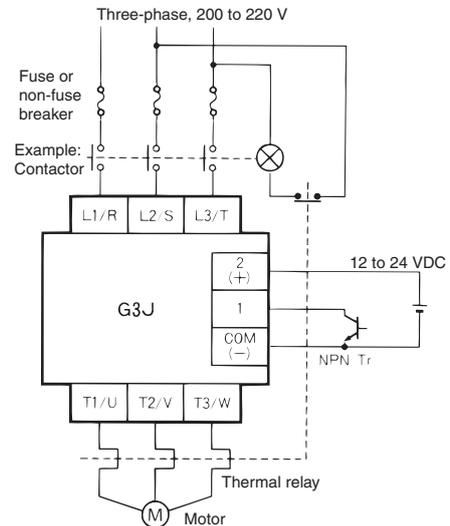
Activate the operation input to the G3J-S□ Soft-start Models or G3J-T□ Soft-start/stop Models only after the power supply has sufficiently stabilized to achieve stable soft-start operation.

### Wiring

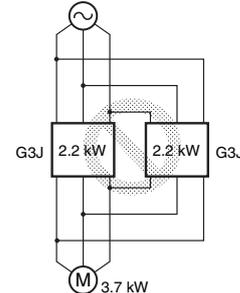
- Make sure that the lead wires are thick enough for the current.
- Output terminals T1, T2, and T3 may be charged regardless of whether the Unit is a 2- or 3-element model that is turned ON or OFF. Cut off the Unit from the power supply by installing a circuit-breaker or other device on the power supply side. Be sure to turn OFF the power supply before wiring the Unit.
- Terminal L2 and terminal T2 of the 2-element model are internally short-circuited to each other. Therefore, connect terminal L2 to the ground terminal of the power supply. If L2 is connected to a terminal other than the ground terminal, cover all the charged terminals, such as heater terminals, to prevent electric shock accidents and ground faults.
- Do not wire power lines or high-tension lines along with the lines of the G3J in the same conduit. Otherwise, the G3J may be damaged or malfunction due to induction noise.
- Be sure to use a surge absorber when connecting an inductive load to the monitor output.

### System Protection

- The system will be safer if the power supply is shut off with a contactor or other device on the power supply side of the G3J as shown in the following diagram.



- Do not operate motors that exceed the allowable capacity with G3Js connected in parallel. Doing so may result in malfunctions.



### Tightening Screws

Be sure to tighten the screws to the specified torques given below. Not doing so may result in malfunctions.

#### Tightening Torque

Output terminals (M4): 1.2 N·m  
Input terminals and monitor output terminals (M3): 0.6 N·m

### Operating Conditions

- Make sure no current exceeding the rated current will flow into the G3J. Otherwise, the G3J may generate excessive heat.
- Make sure that there is no excess ambient temperature rise due to the heat generation of the G3J. If the G3J is mounted inside a panel, install a fan so that the interior of the panel is sufficiently ventilated.

### Limiting Resistor

A limiting resistor cannot be used with the G3J.

In the interest of product improvement, specifications are subject to change without notice.