JZ series is a very reliable small semiconductor switch for power conditioning of resistance load. By Zero Cross Switching mode, we achieve on-off control of alternating current from 100V to 240V with low noise.

**FEATURES**
- Slim form with small space
- Wide input voltage range of 5 to 24V DC.
  - Connection to SSR drive type controller and PLC available.
- High reliability by protection circuit built-in.
- Very visible with LED display
- DIN rail mounting parts are prepared

**MODELS**

JZ series models include:
- **JZ1210**
- **JZ1220**
- **JZ1240**

**Rated current**
- 10A
- 20A
- 40A

**Configuration**
- S: Main unit
- F: Main unit + heat sink
  - + DIN rail mounting parts

**SPECIFICATIONS**

- **Rated operating voltage**: 5 to 24V DC
- **Rated input current**: 7mA or less (at 25°C)
- **Rated voltage**: 100 to 240V AC
- **Non repetitive surge peak on**:
  - (state current) 150A (10A type)
  - 220A (20A type)
  - 440A (40A type)
- **Applied load**: Resistive load
- **Operate time**: 1/2 of load power source cycle +1ms or less
- **Release time**: 1/2 of load power source cycle +1ms or less
- **Output ON voltage drop**: 1.6V (RMS) or less
- **Leakage current**: 10mA or less (at 200V AC)
- **Insulation resistance**: 100MΩ or more (at 500 V DC, between the input and load terminals, and heat sink)
- **Withstand voltage**: 3000V AC for 1 min (between the input and load terminals, and heat sink)
- **Storage temperature**: -20 to 60°C (with no icing or condensation)
- **Ambient temperature**: -10 to 50°C (with no icing or condensation)
  - *Please refer to “load current - ambient temperature” for details*
- **Ambient humidity**: 45 to 85%RH
- **Weight**:
  - 10A --- 80g (configuration S)
  - 260g (configuration F)
  - 20A --- 100g (configuration S)
  - 280g (configuration F)
  - 40A --- 100g (configuration S)
  - 380g (configuration F)

**ACCESSORIES**

- DIN rail mounting parts
  - Please use it without heat sink, and when DIN rail mounting parts is installed.

<table>
<thead>
<tr>
<th>Model</th>
<th>Spec</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZ911</td>
<td>Rated current 10/20A</td>
<td>10g</td>
</tr>
<tr>
<td>JZ912</td>
<td>Rated current 40A</td>
<td>20g</td>
</tr>
</tbody>
</table>

*Depending on ambient temperature. Please refer to “load current - ambient temperature” for details*
## THE LOAD CURRENT - AMBIENT TEMPERATURE

- **10A type, configuration F**
  - Ambient temperature: -20°C to 60°C
  - Load current: 8.5A (3 units), 17A (3 units), 20A (1 unit)

- **20A type, configuration F**
  - Ambient temperature: -20°C to 60°C
  - Load current: 8A (10 units), 16A (10 units), 20A (1 unit)

- **40A type, configuration F**
  - Ambient temperature: -20°C to 60°C
  - Load current: 4.2A (3 units), 5.1A (3 units), 4A (10 units)

### Dimensions

#### 10A/20A type
- **Configuration S**
- **Configuration S + JZ911**

#### 40A type
- **Configuration S**
- **Configuration S + JZ912**

### Connection

- For connecting with the SSR drive type controller
  - **Single-phase circuit**
  - **Three-phase circuit**

#### SSR drive type controller
- ex) LT830 series

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**For connecting with the SSR drive type controller**

- **Three-phase circuit**
  - Select it as follows when using with the three-phase circuit.
    - When load current is 5A or less.
      - 10A type (JZ1210-F0)
    - When load current is 10A or less.
      - 20A type (JZ1220-F0)
    - When load current is 20A or less.
      - 40A type (JZ1240-F0)