T Series Power controllers

**General Features**
- Rated load voltage 380VAC~440VAC
- Power supply 220VAC
- Voltage input signal: 0-5VDC, 0-10VDC, 1-5VDC, 2-10VDC
- Current input signal: 4-20mA, 0-20mA, 0-10mA
- Rated load current 40A, 60A, 75A, 100A.
- For resistive load

**Unique Features**
- 3 phase input, auto phase detect
- Soft start function to protect load and SCR against surge current
- Integrated display with various LED indicator for status and error display
- Integrated heatsink with auto temperature detection with over temperature alarm, SCR output reduce to preset value after alarm on (except T51).
- Maximum and minimum output configurable
- Auto/manual control switch
- RS-485 Mod Bus RTU communication optional (Except T-51)
- Input event function

**Panel Discription**

**INDICATOR**
- OUT: The flashing frequency indicate the output ratio
- AL1: Over temperature alarm indicator
- POW: Power feed indicator
- L1: Phase indicator, when L1 absence, lights on
- L2: Phase indicator, when L2 absence, lights on
- L3: Phase indicator, when L3 absence, lights on
- MAN: Manual control indicator
- COM: Communication indicator

**SET KEY**
- SET: Parameter setting and configuration
- A/M: Manual/auto control switch
- POW: Power feed indicator
- <: Left shift key, to shift the display unit
- v: Decrease key or Stop key
- ^: Increase key or Run key
### Connection Diagram

#### 3 Phase Power

**R**  | **S**  | **T**
---|---|---
**U**  | **V**  | **W**
**IN+**  | **IN-**  | **+5V**
**A+**  | **B-**  | **VCC**
**RS-485**
**DC 0-5V/DC 0-10V/DC 1-5V/DC 1-10V**
**250 Ohm resistor when input**

**Power Supply**

- **AC 220V**
- **4-20mA**
- **250 Ohm resistor when input**

### Ordering Information

#### T51/T6/T7

<table>
<thead>
<tr>
<th>Model</th>
<th>Size(mm)L<em>W</em>H</th>
<th>Install(mm)L*W</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-51-3-40-220-3-N-N</td>
<td>118<em>140</em>118</td>
<td>55*135</td>
</tr>
<tr>
<td>T-51-3-60-220-3-N-N</td>
<td>133<em>140</em>118</td>
<td>55*135</td>
</tr>
<tr>
<td>T-51-3-75-220-3-N-N</td>
<td>133<em>140</em>118</td>
<td>55*135</td>
</tr>
</tbody>
</table>

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</tr>
</thead>
<tbody>
<tr>
<td>T-6-3-40-220-3-N-N</td>
<td>160<em>140</em>145</td>
<td>120*130</td>
</tr>
<tr>
<td>T-6-3-60-220-3-N-N</td>
<td>160<em>140</em>145</td>
<td>120*130</td>
</tr>
<tr>
<td>T-6-3-75-220-3-N-N</td>
<td>220<em>140</em>145</td>
<td>150*130</td>
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<tr>
<td>T-6-3-100-220-3-N-N</td>
<td>220<em>140</em>145</td>
<td>150*130</td>
</tr>
</tbody>
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<th>Size(mm)L<em>W</em>H</th>
<th>Install(mm)L*W</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-7-3-40-220-3-N-N</td>
<td>160<em>110</em>148</td>
<td>105*100</td>
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<tr>
<td>T-7-3-60-220-3-N-N</td>
<td>160<em>110</em>148</td>
<td>105*100</td>
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<tr>
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<td>105*100</td>
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</tbody>
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#### 1: Version Code
- **T51**: T51 series, simplified version with limited function compared to T6 and T7
- **T6**: T6 series, with more features
- **T7**: T7 is the same function as T6, just different size for different mounting space

#### 2: Load type
- 3: 3 phase load 380VAC~440VAC

#### 3: Load current
- 40: 40A
- 60: 60A
- 75: 75A
- 100: 100A (only available for T6)

#### 4: Power Supply
- 220: 220VAC
- 380: 380VAC
- D: 12-24VDC

#### 5: Control signals
- 1: 0-10mA
- 2: 0-20mA
- 3: 4-20mA
- 4: 0-5VDC
- 5: 0-10VDC
- 6: 1-5VDC
- 7: 2-10VDC

#### 6: Alarm
- M: With alarm and Relay output
- N: No alarm

#### 7: Communication
- M: With RS-485 Modbus RTU
- N: Without communication feature

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**WARNING:**

- Do not connect AC power to output terminals.
- Read the user manual before operation.