Digital Automatic Voltage Regulator (MEC700 D-AVR)

General Spec.

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Max.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temp.</td>
<td>-10°C</td>
<td>40°C</td>
<td>To be installed in a cool, level area, no condensation.</td>
</tr>
<tr>
<td>Humidity</td>
<td>25%</td>
<td>85%</td>
<td>No condensation.</td>
</tr>
<tr>
<td>Altitude</td>
<td>0 m</td>
<td>2,000 m</td>
<td></td>
</tr>
<tr>
<td>Withstand voltage</td>
<td>500 V</td>
<td>50 Hz</td>
<td>In compliance with JIS C 6279-1, IEC 6279-1</td>
</tr>
</tbody>
</table>

Advantage of MEC700 AVR

- Realize 5ms sampling time with 32-bit RISC processor.
- Better space factor in a cubicle by downsizing to be an integrated unit.
- Dual system configuration using duplex cable connections of 2 units.
- Correction by Q axis reactance for auto-PSS and standard equipment of torsional frequency removal filters. (Oxingsle is optional)
- All interfaces is cable and installed front or bottom side. All connectors have different shapes for preventing from wrong connection.

Eco Changes is the Mitsubishi Electric Group’s environmental statement, and expresses the Group’s stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

Safety Precautions

Improve use of products can cause severe injury or death and may result in damage to product and other property. Please read instruction manual before installing or using product.

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for a greener tomorrow
The digital automatic voltage regulator (D-AVR) is indispensable for operations. It regulates synchronous generator voltage, and is therefore required to have superior reliability, easy operation and maintenance. D-AVR MEC700 is developed and produced which achieve easier maintenance and environmental load-reducing.

**Advantage**

**High reliability • High functionality • High-performance control**

- High speed computation using a 32-bit high-speed RISC processor.
- Superior control accuracy using a 16-bit analog-digital conversion.
- D-type and D-type PSS are equipped as power grid stabilizing functions. Applicable to D-type system PSS with an optional card.
- Reboot function permits automatic recovery from a transient fault.

**Operation • Maintenance**

- Maintenance tool can monitor, operate, parameter set and trend graph display at fault condition.
- Allows quick detection of faulty positions with LED display, maintenance tool alarm system and CPU fault information display.
- High density functions are realized by using box-type module and functional software.
- When dual system is consisted, On-line replacing is applicable. Moreover interface connectors are selected different shape to prevent wrong connection.
- High space efficiency and easier maintenance with high-density and downsizing by use of functional software.
- In order to support periodical inspections, Software and a maintenance tool for tests are provided.

**Environmental load-reducing**

- Environmental load-reducing by downsizing and less power.

**System configuration** (dual, thyristor excitation system)