NEW PRODUCTS
High Performance AC Servo Systems

SANMOTION
AC SERVO SYSTEMS

3E Model

High-performance servo amplifier series that achieved 3E’s. The series lineup expanded with the new 400 VAC models.

400 VAC
Amplifier capacity: 25, 50, 100 A

Applications: semiconductor manufacturing equipment, machine tools, general industrial machinery

Evolved
Eco-efficient
Easy to use

SANYO DENKI
Eco-efficient

Power consumption and standby power have been reduced by a maximum of 15% and 29%, respectively.*
* When compared with our current model RS1C02A.

Holding brake* equipped as standard

This servo amplifier will be equipped as standard with holding brake. This eliminates the need for designing a new control circuit and saves wiring, thus achieving cost reduction.
* Holding brake holds a load or motor in position when power is cut off, preventing a load from falling or an accident from happening.

Servo Amplifier Specifications

<table>
<thead>
<tr>
<th>Control function</th>
<th>Position control, Speed control, Torque control (switched with parameters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control system</td>
<td>IGBT, sinusoidal PWM control</td>
</tr>
<tr>
<td>Control circuit power supply</td>
<td>24 VDC ± 10%</td>
</tr>
<tr>
<td>Main circuit power supply</td>
<td>3-Phase 380 to 480 VAC, +10, -15%, 50/60 Hz ± 3 Hz</td>
</tr>
<tr>
<td>Compatible motors</td>
<td>SANMOTION R servo motors with output 0.55 to 5.5 kW</td>
</tr>
</tbody>
</table>

Properties / functions

- Vibration suppression control, model-following control
- High gain control
- Real-time switching between trajectory control and positioning control
- Micro-vibration control of motors at standstill
- Adaptive notch filter
- Power consumption monitoring function

Support for startup and servo tuning

- Virtual motor operation function to simulate operation of motor and amplifier
- Navigation function on servo tuning
- Drive recorder function for recording motor and amplifier operating status

Lineup

<table>
<thead>
<tr>
<th>Model no.</th>
<th>Amplifier capacity</th>
<th>Compatible motor rated output</th>
<th>Safety function</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS3_02</td>
<td>25 A</td>
<td>0.55 to 2.0 kW</td>
<td>No</td>
</tr>
<tr>
<td>RS3_05</td>
<td>50 A</td>
<td>1.0 to 3.5 kW</td>
<td></td>
</tr>
<tr>
<td>RS3_10</td>
<td>100 A</td>
<td>3.5 to 5.5 kW</td>
<td></td>
</tr>
<tr>
<td>RS3_02</td>
<td>25 A</td>
<td>0.55 to 2.0 kW</td>
<td>Yes (Safe Torque Off function)</td>
</tr>
<tr>
<td>RS3_05</td>
<td>50 A</td>
<td>1.0 to 3.5 kW</td>
<td></td>
</tr>
<tr>
<td>RS3_10</td>
<td>100 A</td>
<td>3.5 to 5.5 kW</td>
<td></td>
</tr>
</tbody>
</table>

What replaces □ above varies depending on the specification. Contact us for details.

Compliance with Safety Standards

<table>
<thead>
<tr>
<th>Servo amplifier model</th>
<th>Safety standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common to all models</td>
<td>North American safety standards (UL, cUL)</td>
</tr>
<tr>
<td></td>
<td>European directives</td>
</tr>
<tr>
<td></td>
<td>EMC directive</td>
</tr>
<tr>
<td></td>
<td>KC (Korea Certification) mark</td>
</tr>
<tr>
<td>Models equipped with the safe torque off (STO) function</td>
<td>Functional Safety</td>
</tr>
</tbody>
</table>
Servo amplifier dimensions
(Unit: mm)

25 A
Mass: 2.5 kg

50 A
Mass: 4.7 kg
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Evolved Eco-efficient Easy to use

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Servo amplifier dimensions
(Unit: mm)

100 A
Mass: 8.5 kg

Precautions For Adoption

Cautions

Failure to follow the precautions on the right may cause moderate injury and property damage, or in some circumstances, could lead to a serious accident. Always follow all listed precautions.

Cautions

- Read the accompanying Instruction Manual carefully prior to using the product.
- If applying to medical devices and other equipment affecting people's lives, please contact us beforehand and take appropriate safety measures.
- If applying to equipment that can have significant effects on society and the general public, please contact us beforehand.
- Do not use this product in an environment where vibration is present, such as in a moving vehicle or shipping vessel.
- Do not perform any retrofitting, re-engineering, or modification to this equipment.
- The products presented in this catalog are meant to be used for general industrial applications. If using for special applications related to aviation and space, nuclear power, electric power, submarine repeaters, etc., please contact us beforehand.

For any question or inquiry regarding the above, contact our Sales Department.

SANYO DENKI CO., LTD.

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