

News

Product News

Information

Product News

SANYO DENKI Develops SANMOTION F5 Low-Vibration Stepping Driver

December 18, 2014

SANYO DENKI CO., LTD. has enhanced its lineup of SANMOTION F5 stepping systems with updated AC input stepping drivers.

With these drivers, motors can be operated with low vibration and high torque. They are compatible with three series of motors in flange sizes of 42, 60, and 86 mm sq.

The lineup includes both 100 and 200 VAC input models.

They are suitable for semiconductor manufacturing equipment, general industrial machinery, food machinery, and medical devices.



Features

1. Low Vibration

This driver features approximately 30% less vibration compared with our conventional product. *1

2. High Torque

Torque is increased by approximately 5%*1 when combined with our newly developed motors. *2

As output torque is the same for both 100 and 200 VAC input voltages, there is no need to change motors if power specifications change.

3. Analysis Function and Device Startup Support

Using an encoder with the motor makes it possible to monitor information such as the current position and speed. It simplifies determining causes of vibration and step-out.

4. Brake Control

Equipped with power supply for electromagnetic braking to automatically control open/close timing. No external power is needed for braking.

5. Compact Size

This driver features a 29% reduction in volume compared with our conventional product*1 .

*1: Our conventional product is Model No. FS1W075P00.

*2: 5-phase stepping motors announced Nov. 6, 2014. Model nos. SM542□-32□1, SM560□-72□1, SM586□-72□1

Driver Specifications

Driver model no.	F5PAA035P100	F5PAA075P100	F5PAB035P100	F5PAB075P100
Input source	Single-phase 100 to 120 VAC +10, -15%, 50/60 Hz		Single-phase 200 to 240 VAC +10, -15%, 50/60 Hz	
Source current	2 A	4 A	1 A	3 A
External dimensions	W 40 × H 160 × D 120 mm			
Mass	0.65 kg			
Selectable functions	Control mode, input pulse type, low-vibration mode, motor select, step angle, driving current			
Protection functions	Overvoltage protection, power supply voltage reduction protection, overheat protection, overcurrent protection			
LED indication	Status display, alarm display			

Compatible Motors

Motor size	42 mm sq., 60 mm sq., 86 mm sq.
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Models with brakes, gears, and/or encoders are also available.

Applications

Semiconductor manufacturing equipment, general industrial machinery, food machinery, and medical devices

Release Date

February 1, 2015

Price

Open

*The information stated in this release is current as of December 18, 2014.

“ SANMOTION ” is a trademark of SANYO DENKI CO.,LTD.

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