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Informa	ation	New SANMOTION F5 5-phase Stepping Motors						
		Industry's high	e and efficiency				_	
							November 6, 201	4

SANYO DENKI CO., LTD. has expanded its lineup of SANMOTION F5 series 5-phase stepping systems by developing and releasing stepping motors with the highest efficiency and torque in the industry.\*1 This new lineup includes motors with flange sizes of 42, 60, and 86 mm sq.

These new motors are both UL and CE certified, and can be safely used around the world.

They contribute to making high performance semiconductor manufacturing equipment, medical devices, and general industrial machinery.



# Features

#### 1. High Efficiency

Compared with our conventional product, motor temperature rise value has been decreased by 46%,\*2 curtailing device heat emission. The low energy loss contributes to energy savings.

#### 2. High Torque

Compared with our conventional product, holding torque has been increased by 24% to 8.07 N·m.\*2 They are also suitable for devices which require high torque.

\*1: Information based on our own research as of November 6, 2014, collected among 5-phase stepping motors. \*2: Specification of Model No. SM5863-7241. Our conventional product is Model No. 103F8583-7241.

#### **Specifications**

Basic step angle 0.72°

Motor size	Mode	l number	Holding torque at	Rated	Mass	
wotor size	Single shaft	Dual shaft	4-phase energization [N⋅m min.]	current [A/phase]	[kg]	
	SM5421-3241	SM5421-3211	0.13	0.35	0.24	
42mm sq.	SM5422-3241	SM5422-3211	0.185	0.35	0.31	
	SM5423-3241	SM5423-3211	0.245	0.35	0.38	
	SM5601-7241	SM5601-7211	0.57	0.75	0.62	
60mm sq.	SM5602-7241	SM5602-7211	0.9	0.75	0.8	
	SM5603-7241	SM5603-7211	1.7	0.75	1.27	
	SM5861-7241	SM5861-7211	2.3	0.75	1.75	
86mm sq.	SM5862-7241	SM5862-7211	4.4	0.75	2.9	
	SM5863-7241	SM5863-7211	6.8	0.75	4	

#### **Applications**

Semiconductor manufacturing equipment, medical devices, and general industrial machinery

## **Release Date**

December 1, 2014

### Price

Open

\*The information stated in this release is current as of November 6, 2014.

" SANMOTION " is a trademark of SANYO DENKI CO., LTD.

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