

# SANMOTION F5

5-PHASE STEPPING SYSTEMS

**CANopen**<sup>®</sup>

5-phase Stepping Motor with Integrated Driver



42mm 60mm

**Features**

- CANopen Interface Compatible
- Reduced wiring and mounting space
- High Resolution Encoder Equipped  
Resolution: 500P/R x 4 = 2000P/R

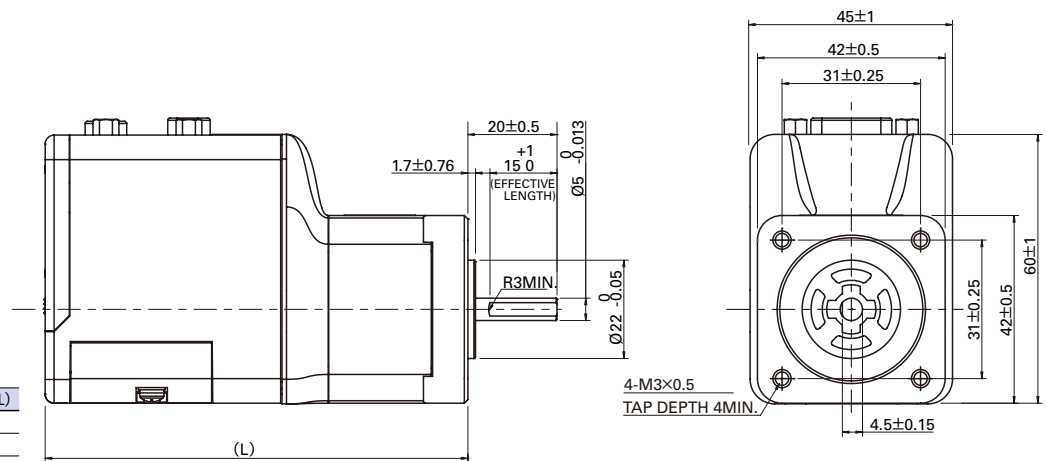
**Applications**

Semiconductor equipment, Machine tool, etc.

**Dimensions** Unit : mm

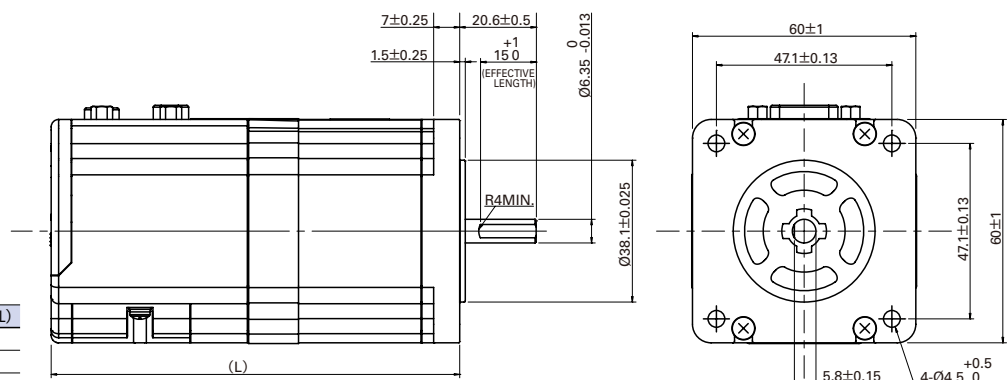
42mm

Model No.	Holding Brake	Motor length(L)
DPF1M542S-01	—	94.6 ± 2
DPF1M542SB01	✓	133 ± 2



60mm

Model No.	Holding Brake	Motor length(L)
DPF2M562S-01	—	109.7 ± 2
DPF2M562SB01	✓	152.7 ± 2

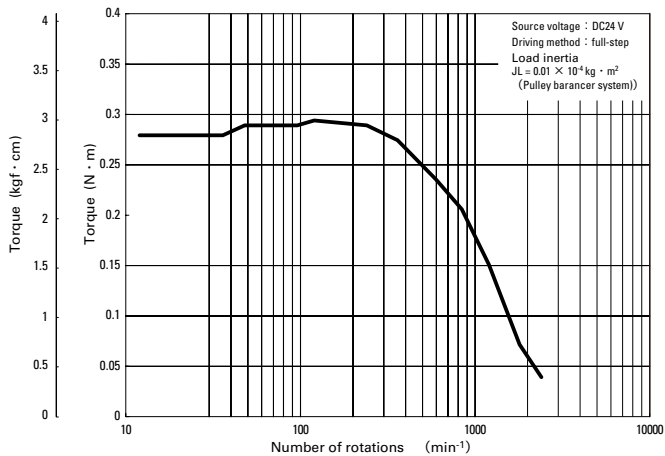


## Specifications

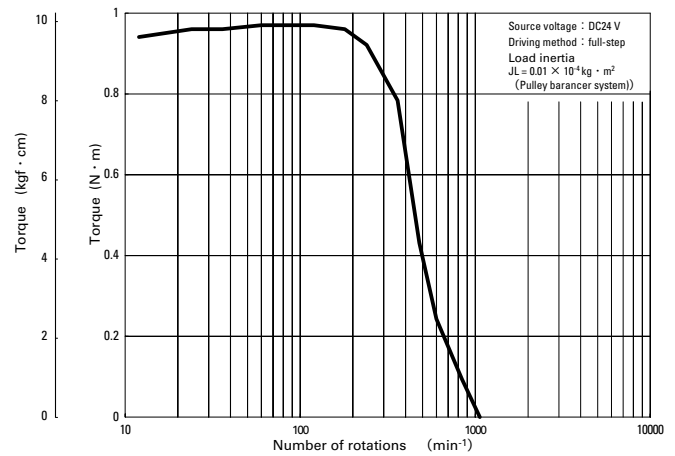
Model No.		DPF1M542S-01	DPF1M542SB01	DPF2M562S-01	DPF2M562SB01	
Holding Brake		—	✓	—	✓	
Flange size		42mm		60mm		
Basic specifications	Power supply	DC24V to 36V ± 10%	DC24V ± 10%	DC24V to 36V ± 10%	DC24V ± 10%	
	Environment	Operating ambient temperature/humidity				0 to 50°C / 35 to 85% RH (no condensation)
		Storage temperature/humidity				-20 to +70°C / 10 to 90% RH(no condensation)
		Operation altitude				1000 m (3280 feet) MAX. above sea level
	Holding torque		0.28N · m	0.28N · m	0.98N · m	0.98N · m
Brake holding torque		—	0.3N · m	—	0.8N · m	
Mass		0.45kg	0.65kg	0.9kg	1.2kg	
Functions	Protective functions		Driver Over Heat, Over Current			
	LED Display		Status : 7-segment LED CAN : RUN / ERROR			
	CANopen Interface	Bus connection		CAN-Standard ISO 118988 (High-speed CAN) compliant		
		Communication profile		CiA DS-301V4.02 compliant		
		Device profile		CiA DSP-402V2.0 compliant		
		Communication port		D-sub 9pin (1Port)		
		Power supply for CAN		DC12V to 24V ± 10%		
		Baud rate		10kbit/s, 20kbit/s, 50kbit/s, 125kbit/s, 250kbit/s, 500kbit/s, 800kbit/s, 1Mbit/s Rotary Switch		
		Node address		1 to 127setting Rotary Switch (× 2)		
		Communication object		SDO, PDO, EMCY, NMT, SYNC		
		PDO transfer mode		Synchronous transmission / Asynchronous transmission		
	Operation mode		Profile Position Mode, Profile Velocity Mode, Homing Mode			
	I/O signals	Connector		High density D-sub 15pin		
		Input signal		General-purpose input x6 PNP (GND common) 5 to 24V		
		Output signal		General-purpose output x2 Open collector (2Wire output) 30V 10mA max		
Serial communication for maintenance I / F mode		RS-485	Start-Stop Synchronization, Full Duplex Communication, Baud rate: 115,200 / 38,400bps			
Resolution	Micro-step		200P/R, 400P/R, 500P/R, 800P/R, 1000P/R, 1250P/R, 1600P/R, 2000P/R, 2500P/R, 3200P/R, 4000P/R, 5000P/R, 6400P/R, 10000P/R, 12500P/R, 12800P/R, 20000P/R, 25000P/R, 25600P/R, 40000P/R, 50000P/R, 51200P/R, 62500P/R, 100000P/R, 125000P/R			
	Encoder		500P/R			

## Characteristics

DPF1M542S □ -01



DPF2M562S □ -01



## Notice

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