

**SF Series 6" Brushless AC Servo Motors  
(Food Grade\*)**

(6 Pole)

UL Recognized



	Winding		Current	
	Torque, Cont. Nm (lb-in) (Note 2)	Winding Speed (RPM) (Note 2)	Cont. (Arms)	Cont. (Arms)

<b>61-D</b>	5.7 (51.0)	2500	5.0	
<b>61-G</b>	5.7 (51.0)	4000 M461G=M320	7.6	
<b>62-D</b>	12.2 (108.0)	2500	10	
<b>62-E</b>	12.2 (108.0)	3000	11.5	
<b>62-G</b>	12.2 (108.0)	4000 M462G=M321	15.0	
<b>63-D</b>	17.4 (154.0)	2500	15.0	
<b>63-F</b>	17.4 (154.0)	3500	20.0	
<b>63-K</b>	17.4 (154.0)	5500 M463K=M324	29.0	
<b>64-C</b>	21.9 (194.0)	2000	15.0	
<b>64-E</b>	21.9 (194.0)	3000	20.0	
<b>64-G</b>	21.9 (194.0)	4000 M464G=M327	27.3	
<b>65-C</b>	24.8 (220.0)	2000	14.5	
<b>65-D</b>	24.8 (220.0)	2500	18.0	
<b>65-G</b>	24.8 (220.0)	4000 M465G=M329	28.9	

Shaft & Mounting		
Output Shaft	Diameter x Extension	Front Mounting

A	Shaft Only		Flange on all Models	
	<b>M461:</b>	0.625 x 2.06 in Kwy: 0.1875 x 1.5 in	Sq. Flange 7.00 in 4.5 in Pilot	(4) 0.531 in Holes on a 7.875 in BC
<b>M462 &amp; M463:</b>	.0875 x 2.25 in Kwy: 0.1875 x 1.5 in	(4) 0.375-16 UNC-2B thread, 0.56 in deep holes on 5.875 in BC		
<b>M464 &amp; M465:</b>	1.125 x 2.75 in Kwy: 0.250 x 1.5 in			
E	NEMA 56C -- D Modified			
	1.125 x 2.75 in Keyway 0.250 x 1.5 in	Sq. Flange 6.0 in, 4.5 in Pilot, (4) 3/8-16 UNC-2B thread, 0.56 in deep holes on 5.875 in BC & (4) 0.406 in holes on 7.00 in BC		
M	DIN Normal Tolerances			
	24 x 50 mm Without Keyway	Sq. Flange 152.4, mm 130 mm Pilot (4) 12 mm holes on 165 mm B.C.		
N	DIN Normal Tolerances			
	24 x 50 mm Captive Keyway 8 x 40 mm	Sq. Flange 152.4, mm 130 mm Pilot (4) 12 mm holes on 165 mm B.C.		
P	DIN 42955-R Tolerances			
	24 x 50 mm Without Keyway	Sq. Flange 152.4, mm 130 mm Pilot (4) 12 mm holes on 165 mm B.C.		
R	DIN 42955-R Tolerances			
	24 x 50 mm Captive Keyway 8 x 40 mm	Sq. Flange 152.4, mm 130 mm Pilot (4) 12 mm holes on 165 mm B.C.		

Finish / Shaft Material	
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<b>0</b>	FDA Food Grade White 2-part Epoxy/Stainless Steel (17-4)
<b>1</b>	FDA Food Grade Steel I7/Stainless Steel (17-4)

Brake	
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<b>0</b>	Without Brake
<b>B</b>	24VDC 11.4 Nm 100 lb-in 131-011-0006
<b>C</b>	24VDC 19.9 Nm 175 lb-in 131-011-0007
<b>D</b>	24VDC 350 lb-in 131-011-0022

Winding Voltage	
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<b>0</b>	230V
<b>2</b>	460V

Commutation / Feedback Device	
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<b>0</b>	Without Feedback
<b>2</b>	2 Pole Brushless Pancake Resolver 1.04 Transformation 6.6kHz, 7.5Vrms Input Special Option (Consult Factory) EPN: 325-003-0007
<b>5</b>	2 Pole Brushless Pancake Resolver 0.5 Transformation 10kHz, 7.0Vrms Input EPN: 325-005-0015
<b>A</b>	2 Pole Brushless Pancake Resolver 0.25 Transformation 4kHz, 6.0Vrms Input EPN: 325-005-0008
<b>B</b>	2 Pole Brushless Pancake Resolver 0.5 Transformation 5.0kHz, 4Vrms Input EPN: 325-005-0005
<b>D</b>	Absolute, Heidenhain, EnDat Multi-Turn
<b>E</b>	Encoder 500kHz AM26LS31 RS422 Line Driver
<b>F</b>	1000 Lines / Rev
<b>G</b>	1024 Lines / Rev
<b>H</b>	2000 Lines / Rev
<b>M</b>	2048 Lines / Rev
<b>S</b>	4096 Lines / Rev
<b>S</b>	Absolute, Stegmann, Hiperface SRS50 - Single-Turn
<b>T</b>	Absolute, Stegmann, Hiperface SRM50 - Multi-Turn

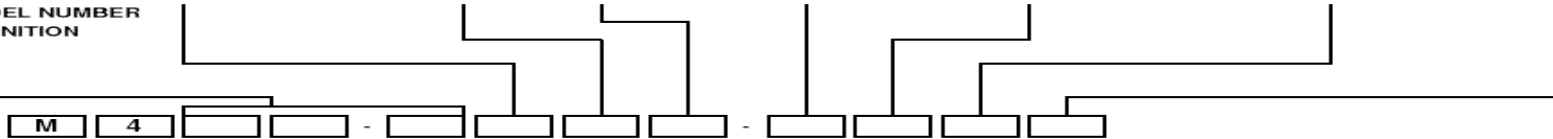
Optional Sealing	
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<b>0</b>	Standard Shaft Seal IP67
<b>E</b>	Standard Shaft Seal with Front Face O-ring Groove and O-ring IP 67
<b>F</b>	Zero Maintenance Shaft Seal (aluminum) IP 67

Connection Method	
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<b>D</b>	(2) 1M Shielded Cables No Connectors Liquid Tight Strain Relief
<b>5</b>	(2) RDE Connectors Direct to Endbell with without Mating Connectors
<b>7</b>	(2) RDE Connectors Direct to Endbell with Mating Connectors
	Custom Cable Length (up to 50 Ft)

**MODEL NUMBER DEFINITION**



**Notes:**

1. Thermo switch rating 155degC in motor, each winding (3), normally closed contact.
2. Derate the motor continuous torque by 6% and use 1/2 listed current for 460V winding motors.
3. All food grade motors are smooth surface construction (finless).  
\*Conforms to latest applicable requirements of BISCC, 3-A SSI

Replaces all previous pricing sheets.  
All data & prices are subject to change without notice.  
Rev B (2-1-13) EDN: 057229  
ECC: 006842 EPN: 307-660-0102C  
(997-002-6470)