

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Motor Data (230V)

Performance Data (40 °C)	Symbol	Unit	SF71-H	SF73-B	SF73-C	SF74-A	SF74-C
Continuous Rated Torque (Stall)	T <sub>c</sub>	lb-in [Nm]	66.5 [7.51]	158.9 [17.96]	158.9 [17.96]	213.8 [24.15]	213.8 [24.15]
Continuous Rated Current (RMS)	I <sub>c</sub>	Amps (RMS)	9.31	9.50	11.97	7.99	16.82
Max. Continuous Power	P <sub>max</sub>	HP [kW]	2.75 [2.05]	2.85 [2.13]	3.57 [2.66]	2.09 [1.56]	4.73 [3.53]
Torque @ Max. Power	T <sub>p</sub>	lb-in [Nm]	52.4 [5.93]	128.4 [14.50]	128.6 [14.54]	164.6 [18.60]	170.43 [19.26]
Current @ Maximum Power	I <sub>p</sub>	Amps (RMS)	9.22	8.55	10.77	7.19	15.14
Speed @ Max. Power (Amp. Dependent)	N <sub>p</sub>	RPM	3300	1400	1750	800	1750
Max. Continuous Speed (Amp. Dependent)	N <sub>max</sub>	RPM	3539	1671	2162	1081	2201
Maximum Current (RMS)	I <sub>m</sub>	Amps (RMS)	37.24	38.00	47.86	31.96	67.30
Peak Torque	T <sub>pk</sub>	lb-in [Nm]	199.5 [22.53]	476.7 [53.88]	476.7 [53.88]	641.4 [72.45]	641.4 [72.45]
Rotor Inertia	J <sub>m</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0151 [0.00171]	0.0454 [0.00513]	0.0454 [0.00513]	0.066 [0.0074]	0.0659 [0.0074]
Torque Constant (@ Max. Winding Temp.)	K <sub>t</sub>	lb-in/Amps [Nm/Amp]	7.14 [0.81]	16.73 [1.89]	13.28 [1.50]	26.75 [3.02]	12.70 [1.43]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	K <sub>e</sub>	V/KRPM [V*Sec/Rad]	58.78 [0.56]	124.47 [1.19]	96.19 [0.92]	192.37 [1.84]	94.50 [0.90]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	R <sub>a</sub>	Ohm	1.78	1.32	0.84	2.42	0.60
Stator Inductance ±10% (L-L) @ 25°C (77°F)	L <sub>a</sub>	millihenry	6.48	6.63	4.37	12.60	3.11
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	18486 [14548]	14728 [14258]	14728 [14258]	13657 [13353]	12895 [12139]
Thermal Time Constant [brake]	T <sub>th</sub>	minute	35 [38]	40 [43]	40 [43]	45 [48]	45 [48]
Electrical Time Constant	T <sub>e</sub>	msec	3.64	5.19	5.21	5.21	5.18
Mechanical Time Constant [brake]	T <sub>m</sub>	msec	6.72 [8.54]	3.01 [3.11]	3.12 [3.22]	3.24 [3.32]	3.45 [3.67]
Static Friction	T <sub>f</sub>	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	25 [11.3]	50 [22.68]	50 [22.68]	60 [27.2]	60 [27.2]
Line Voltage	V	VAC	230	230	230	230	230

Performance Data (40 °C)	Symbol	Unit	SF76-A	SF76-B	SF76-C	SF77-A	SF77-B
Continuous Rated Torque (Stall)	T <sub>c</sub>	lb-in [Nm]	311.7 [35.22]	311.7 [35.22]	311.7 [35.22]	353.6 [39.96]	353.6 [39.96]
Continuous Rated Current (RMS)	I <sub>c</sub>	Amps (RMS)	11.65	17.48	24.38	13.59	19.43
Max. Continuous Power	P <sub>max</sub>	HP [kW]	2.76 [2.05]	4.04 [30.1]	5.80 [4.33]	3.52 [2.62]	5.46 [4.08]
Torque @ Max. Power	T <sub>p</sub>	lb-in [Nm]	231.5 [26.16]	221.3 [25.00]	215.2 [24.32]	318.3 [35.98]	299.3 [33.83]
Current @ Maximum Power	I <sub>p</sub>	Amps (RMS)	10.48	15.73	21.95	12.24	17.49
Speed @ Max. Power (Amp. Dependent)	N <sub>p</sub>	RPM	750	1150	1700	750	1150
Max. Continuous Speed (Amp. Dependent)	N <sub>max</sub>	RPM	1081	1622	2234	1112	1589
Maximum Current (RMS)	I <sub>m</sub>	Amps (RMS)	46.59	69.92	97.52	54.38	77.71
Peak Torque	T <sub>pk</sub>	lb-in [Nm]	935.1 [105.66]	935.1 [105.66]	935.1 [105.66]	1060.8 [119.88]	1060.8 [119.88]
Rotor Inertia	J <sub>m</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0909 [0.010]	0.0909 [0.010]	0.0909 [0.010]	0.1060 [0.012]	0.1060 [0.012]
Torque Constant (@ Max. Winding Temp.)	K <sub>t</sub>	lb-in/Amps [Nm/Amp]	26.76 [3.02]	17.83 [2.01]	12.78 [1.44]	26.01 [2.94]	18.20 [2.06]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	K <sub>e</sub>	V/KRPM [V*Sec/Rad]	192.37 [1.84]	128.25 [1.22]	93.10 [0.89]	187.03 [1.79]	130.92 [1.25]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	R <sub>a</sub>	Ohm	1.36	0.56	0.35		0.51
Stator Inductance ±10% (L-L) @ 25°C (77°F)	L <sub>a</sub>	millihenry	8.04	3.58	2.04		3.15
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	14439 [14204]	14439 [14204]	14439 [13815]	14043 [13847]	14043 [13847]
Thermal Time Constant [brake]	T <sub>th</sub>	minute	55 [58]	55 [58]	55 [58]	60 [63]	60 [63]
Electrical Time Constant	T <sub>e</sub>	msec	5.91	10.21	5.83		6.16
Mechanical Time Constant [brake]	T <sub>m</sub>	msec	2.51 [2.56]	1.46 [1.48]	2.73 [2.80]		2.38 [2.41]
Static Friction	T <sub>f</sub>	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	80 [36.3]	80 [36.3]	80 [36.3]	90 [40.8]	90 [40.8]
Line Voltage	V	VAC	230	230	230	230	230

Brake Information:		Fail safe, Electric release	
Rated Holding Torque	T <sub>s</sub>	lb-in [Nm]	354 [40]
Rated voltage	V	VDC	24
Rated current	I	Amp	0.62
Inertia	J <sub>b</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0024 [0.00023]
Weight Adder	W	lb [kg]	7.2 [3.3]

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Motor Data (230V)

Performance Data (40 °C)	Symbol	Unit	SF77-C	SF79-A	SF79-B	SF79-C
Continuous Rated Torque (Stall)	$T_c$	lb-in [Nm]	353.6 [39.96]	418.4 [47.27]	418.4 [47.27]	418.4 [47.27]
Continuous Rated Current (RMS)	$I_c$	Amps (RMS)	27.50	15.64	25.02	33.25
Max. Continuous Power	$P_{max}$	HP [kW]	7.68 [5.73]	4.47 [3.33]	7.60 [5.67]	10.20 [7.61]
Torque @ Max. Power	$T_p$	lb-in [Nm]	322.7 [36.46]	389.7 [44.03]	294.5 [33.25]	389.69 [44.03]
Current @ Maximum Power	$I_p$	Amps (RMS)	24.76	14.07	22.52	29.93
Speed @ Max. Power (Amp. Dependent)	$N_p$	RPM	1500	750	1250	1650
Max. Continuous Speed (Amp. Dependent)	$N_{max}$	RPM	2222	1081	1730	2162
Maximum Current (RMS)	$I_m$	Amps (RMS)	110.02	62.55	100.11	133.00
Peak Torque	$T_{pk}$	lb-in [Nm]	1060.8 [119.88]	1255.2 [141.81]	1255.2 [141.81]	1255.2 [141.81]
Rotor Inertia	$J_m$	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.1060 [0.012]	0.1363 [0.0154]	0.1363 [0.0154]	0.1363 [0.0154]
Torque Constant (@ Max. Winding Temp.)	$K_t$	lb-in/Amps [Nm/Amp]	12.86 [1.45]	26.76 [3.02]	16.72 [1.89]	13.86 [1.57]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	$K_e$	V/KRPM [V*Sec/Rad]	93.60 [0.89]	192.37 [1.84]	120.23 [1.15]	96.20 [0.92]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	$R_a$	Ohm	0.26		0.31	0.37
Stator Inductance ±10% (L-L) @ 25°C (77°F)	$L_a$	millihenry	1.64		2.03	1.30
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	14043 [13520]	12922 [12545]	12922 [12545]	12922 [12545]
Thermal Time Constant [brake]	$T_{th}$	minute	60 [63]	70 [73]	70 [73]	70 [73]
Electrical Time Constant	$T_e$	msec	6.31		6.48	6.49
Mechanical Time Constant [brake]	$T_m$	msec	2.4 [2.49]		2.21 [2.24]	2.15 [2.17]
Static Friction	$T_f$	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	90 [40.8]	110 [49.9]	110 [49.9]	110 [49.9]
Line Voltage	V	VAC	230	230	230	230

### Brake Information:

Fail safe, Electric release

Rated Holding Torque	$T_s$	lb-in [Nm]	354 [40]
Rated voltage	V	VDC	24
Rated current	I	Amp	0.62
Inertia	$J_b$	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0024 [0.00023]
Weight Adder	W	lb [kg]	7.2 [3.3]

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Motor Data (460V)

Performance Data (40 °C)	Symbol	Unit	SF71-H	SF73-B	SF73-C	SF74-A	SF74-C
Continuous Rated Torque (Stall)	T <sub>c</sub>	lb-in [Nm]	66.5 [7.51]	158.9 [17.96]	158.9 [17.96]	213.8 [24.15]	213.8 [24.15]
Continuous Rated Current (RMS)	I <sub>c</sub>	Amps (RMS)	4.66	4.75	5.99	4.00	8.41
Max. Continuous Power	P <sub>max</sub>	HP [kW]	2.75 [2.05]	2.85 [2.13]	3.57 [2.66]	2.09 [1.56]	4.73 [3.53]
Torque @ Max. Power	T <sub>p</sub>	lb-in [Nm]	52.4 [5.93]	128.4 [14.50]	128.6 [14.54]	164.6 [18.60]	170.43 [19.26]
Current @ Maximum Power	I <sub>p</sub>	Amps (RMS)	4.61	4.28	5.39	3.60	7.15
Speed @ Max. Power (Amp. Dependent)	N <sub>p</sub>	RPM	3300	1400	1750	800	1750
Max. Continuous Speed (Amp. Dependent)	N <sub>max</sub>	RPM	3539	1671	2162	1081	2201
Maximum Current (RMS)	I <sub>m</sub>	Amps (RMS)	18.62	19.00	23.93	15.98	33.63
Peak Torque	T <sub>pk</sub>	lb-in [Nm]	199.5 [22.53]	476.7 [53.88]	476.7 [53.88]	641.4 [72.45]	641.4 [72.45]
Rotor Inertia	J <sub>m</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0151 [0.00171]	0.0454 [0.00513]	0.0454 [0.00513]	0.066 [0.0074]	0.0659 [0.0074]
Torque Constant (@ Max. Winding Temp.)	K <sub>t</sub>	lb-in/Amps [Nm/Amp]	17.20 [1.94]	33.46 [3.78]	28.14 [3.18]	53.50 [6.04]	25.40 [2.86]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	K <sub>e</sub>	V/kRPM [V*Sec/Rad]	117.56 [1.12]	248.94 [2.38]	192.38 [1.84]	384.74 [3.68]	189.00 [1.80]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	R <sub>a</sub>	Ohm	3.56	2.64	1.68	4.84	1.20
Stator Inductance ±10% (L-L) @ 25°C (77°F)	L <sub>a</sub>	millihenry	12.96	13.66	8.74	25.20	6.22
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	18486 [14548]	14728 [14258]	14728 [14258]	13657 [13353]	12895 [12139]
Thermal Time Constant [brake]	T <sub>th</sub>	minute	35 [38]	40 [43]	40 [43]	45 [48]	45 [48]
Electrical Time Constant	T <sub>e</sub>	msec	3.64	5.19	5.21	5.21	5.18
Mechanical Time Constant [brake]	T <sub>m</sub>	msec	6.72 [8.54]	3.01 [3.11]	3.12 [3.22]	3.24 [3.32]	3.45 [3.67]
Static Friction	T <sub>f</sub>	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	25 [11.3]	50 [22.68]	50 [22.68]	60 [27.2]	60 [27.2]
Line Voltage	V	VAC	460	460	460	460	460

Performance Data (40 °C)	Symbol	Unit	SF76-A	SF76-B	SF76-C	SF77-A	SF77-B
Continuous Rated Torque (Stall)	T <sub>c</sub>	lb-in [Nm]	311.7 [35.22]	311.7 [35.22]	311.7 [35.22]	353.6 [39.96]	353.6 [39.96]
Continuous Rated Current (RMS)	I <sub>c</sub>	Amps (RMS)	5.82	8.74	12.19	6.80	9.72
Max. Continuous Power	P <sub>max</sub>	HP [kW]	2.76 [2.05]	4.04 [30.1]	5.80 [4.33]	3.52 [2.62]	5.46 [4.08]
Torque @ Max. Power	T <sub>p</sub>	lb-in [Nm]	231.5 [26.16]	221.3 [25.00]	215.2 [24.32]	318.3 [35.98]	299.3 [33.83]
Current @ Maximum Power	I <sub>p</sub>	Amps (RMS)	5.24	7.67	10.97	4.38	8.75
Speed @ Max. Power (Amp. Dependent)	N <sub>p</sub>	RPM	750	1150	1700	1150	1150
Max. Continuous Speed (Amp. Dependent)	N <sub>max</sub>	RPM	1081	1622	2234	1589	1589
Maximum Current (RMS)	I <sub>m</sub>	Amps (RMS)	23.29	34.96	48.76	19.43	38.86
Peak Torque	T <sub>pk</sub>	lb-in [Nm]	935.1 [105.66]	935.1 [105.66]	935.1 [105.66]	1060.8 [119.88]	1060.8 [119.88]
Rotor Inertia	J <sub>m</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0909 [0.010]	0.0909 [0.010]	0.0909 [0.010]	0.1060 [0.012]	0.1060 [0.012]
Torque Constant (@ Max. Winding Temp.)	K <sub>t</sub>	lb-in/Amps [Nm/Amp]	53.52 [6.04]	35.66 [4.02]	25.56 [2.88]	52.02 [5.88]	36.40 [4.12]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	K <sub>e</sub>	V/kRPM [V*Sec/Rad]	384.74 [3.68]	256.50 [2.44]	186.20 [1.78]	374.06 [3.58]	261.84 [2.50]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	R <sub>a</sub>	Ohm	2.72	1.12	0.70	2.04	1.02
Stator Inductance ±10% (L-L) @ 25°C (77°F)	L <sub>a</sub>	millihenry	16.08	7.16	4.08	12.60	6.30
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	14439 [14204]	14439 [14204]	14439 [13815]	14043 [13847]	14043 [13847]
Thermal Time Constant [brake]	T <sub>th</sub>	minute	55 [58]	55 [58]	55 [58]	60 [63]	60 [63]
Electrical Time Constant	T <sub>e</sub>	msec	5.91	10.21	5.83	6.16	6.16
Mechanical Time Constant [brake]	T <sub>m</sub>	msec	2.51 [2.56]	1.46 [1.48]	2.73 [2.80]	2.38 [2.41]	2.38 [2.41]
Static Friction	T <sub>f</sub>	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	80 [36.3]	80 [36.3]	80 [36.3]	90 [40.8]	90 [40.8]
Line Voltage	V	VAC	460	460	460	460	460

### Brake Information:

Rated Holding Torque	T <sub>s</sub>	lb-in [Nm]	354 [40]
Rated voltage	V	VDC	24
Rated current	I	Amp	0.62
Inertia	J <sub>b</sub>	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0024 [0.00023]
Weight Adder	W	lb [kg]	7.2 [3.3]

Fail safe, Electric release

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Motor Data (460V)

Performance Data (40 °C)	Symbol	Unit	SF77-C	SF79-A	SF79-B	SF79-C
Continuous Rated Torque (Stall)	$T_c$	lb-in [Nm]	353.6 [39.96]	418.4 [47.27]	418.4 [47.27]	418.4 [47.27]
Continuous Rated Current (RMS)	$I_c$	Amps (RMS)	13.76	7.82	13.68	16.63
Max. Continuous Power	$P_{max}$	HP [kW]	7.68 [5.73]	4.47 [3.33]	7.60 [5.67]	10.20 [7.61]
Torque @ Max. Power	$T_p$	lb-in [Nm]	322.7 [36.46]	389.7 [44.03]	294.5 [33.25]	389.69 [44.03]
Current @ Maximum Power	$I_p$	Amps (RMS)	12.38	7.04	11.27	14.96
Speed @ Max. Power (Amp. Dependent)	$N_p$	RPM	1500	750	1250	1650
Max. Continuous Speed (Amp. Dependent)	$N_{max}$	RPM	2222	1081	1730	2162
Maximum Current (RMS)	$I_m$	Amps (RMS)	55.01	31.27	54.72	66.50
Peak Torque	$T_{pk}$	lb-in [Nm]	1060.8 [119.88]	1255.2 [141.81]	1255.2 [141.81]	1255.2 [141.81]
Rotor Inertia	$J_m$	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.1060 [0.012]	0.1363 [0.0154]	0.1363 [0.0154]	0.1363 [0.0154]
Torque Constant (@ Max. Winding Temp.)	$K_t$	lb-in/Amps [Nm/Amp]	25.72 [2.90]	53.52 [6.04]	33.68 [3.80]	27.72 [3.14]
Back EMF Constant (L-L RMS) @ 25°C (77°F)	$K_e$	V/KRPM [V*Sec/Rad]	187.20 [1.78]	384.74 [3.68]	240.46 [2.30]	192.40 [1.84]
Stator Resistance ±10% (L-L) @ 25°C (77°F)	$R_a$	Ohm	0.52		0.62	0.74
Stator Inductance ±10% (L-L) @ 25°C (77°F)	$L_a$	millihenry	3.28		4.06	2.60
Max. Theoretical Acceleration @ Stall [brake]	AE	Rad/sec <sup>2</sup>	14043 [13520]	12922 [12545]	12922 [12545]	12922 [12545]
Thermal Time Constant [brake]	$T_{th}$	minute	60 [63]	70 [73]	70 [73]	70 [73]
Electrical Time Constant	$T_e$	msec	6.31	6.49	6.48	6.49
Mechanical Time Constant [brake]	$T_m$	msec	2.4 [2.49]	2.15 [2.17]	2.21 [2.24]	2.15 [2.17]
Static Friction	$T_f$	lb-in [Nm]	10 [1.13]	10 [1.13]	10 [1.13]	10 [1.13]
Weight	W	lb [kg]	90 [40.8]	110 [49.9]	110 [49.9]	110 [49.9]
Line Voltage	V	VAC	460	460	460	460

### Brake Information:

Fail safe, Electric release

Rated Holding Torque	$T_s$	lb-in [Nm]	354 [40]
Rated voltage	V	VDC	24
Rated current	I	Amp	0.62
Inertia	$J_b$	lb-in-sec <sup>2</sup> [kg-m <sup>2</sup> ]	0.0024 [0.00023]
Weight Adder	W	lb [kg]	7.2 [3.3]

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Connection Data

### Motor Connections

WIRE COLOR	AWG	FUNCTION
BLACK	10	ØA
WHITE	10	ØB
RED	10	ØC
GREEN	10	GROUND

### Incremental Encoder Connections

WIRE COLOR	AWG	FUNCTION
RED/BLUE	24	+VDC
BLUE/RED	24	COMMON
WHITE/GREEN	24	OUTPUT A
GREEN/WHITE	24	OUTPUT A'
WHITE/BLUE	24	OUTPUT B
BLUE/WHITE	24	OUTPUT B'
WHITE/ORANGE	24	OUTPUT Z
ORANGE/WHITE	24	OUTPUT Z'
WHITE/GRAY	24	OUTPUT U
GRAY/WHITE	24	OUTPUT U'
WHITE/BROWN	24	OUTPUT V
BROWN/WHITE	24	OUTPUT V'
RED/ORANGE	24	OUTPUT W
ORANGE/RED	24	OUTPUT W'
WHITE	24	CASE GND (NOT USED)
DRAIN WIRE	24	SHIELD
BROWN	18	BRAKE (+) Optional
ORANGE	18	BRAKE (-) Optional
BLUE	18	OTL
BLUE	18	OTL

### Absolute Encoder Connections

WIRE COLOR	AWG	FUNCTION
WHITE/BLUE	24	+VDC
BLUE/WHITE	24	COMMON
WHITE/ORANGE	24	+SIN
ORANGE/WHITE	24	REFSIN
WHITE/GREEN	24	+COS
GREEN/WHITE	24	REFCOS
WHITE/BROWN	24	DATA +
BROWN/WHITE	24	DATA -
DRAIN WIRE	24	SHIELD
BROWN	18	BRAKE (+) Optional
ORANGE	18	BRAKE (-) Optional
BLUE	18	OTL
BLUE	18	OTL

### Resolver Connections

WIRE COLOR	AWG	FUNCTION
WHITE/BLUE	24	R1 (+REF)
BLUE/WHITE	24	R2 (-REF)
WHITE/ORANGE	24	S1 (+COSINE)
ORANGE/WHITE	24	S3 (-COSINE)
WHITE/GREEN	24	S2 (+SINE)
GREEN/WHITE	24	S4 (-SINE)
DRAIN WIRE	24	SHIELD
BROWN	18	BRAKE (+) Optional
ORANGE	18	BRAKE (-) Optional
WHITE/BROWN	18	OTL
BROWN/WHITE	18	OTL

# SF - SERIES

Food Grade Servo Motor  
7" Frame

## Motor Dimensions

Model	"A"	"B"	"C"	"D"	"E"	"F"	"G"
SF71	∅ 1.375 1.374	3.125	2.50	1.201 1.186	0.3125 0.3095	1.00	0.13
	∅ 32.018 32.002	58	50 (captive)	26.79	9.985 9.949	25.4	4
SF73	∅ 1.375 1.374	3.125	2.50	1.201 1.186	0.3125 0.3095	1.00	0.13
	∅ 32.018 32.002	58	50 (captive)	26.79	9.985 9.949	25.4	4
SF74	∅ 1.375 1.374	3.125	2.50	1.201 1.186	0.3125 0.3095	1.00	0.13
	∅ 32.018 32.002	58	50 (captive)	26.79	9.985 9.949	25.4	4
SF76	∅ 1.375 1.374	3.125	2.50	1.201 1.186	0.3125 0.3095	1.00	0.13
	∅ 32.018 32.002	58	50 (captive)	26.79	9.985 9.949	25.4	4
SF77	∅ 1.375 1.374	3.125	2.50	1.201 1.186	0.3125 0.3095	1.00	0.13
	∅ 32.018 32.002	58	50 (captive)	26.79	9.985 9.949	25.4	4

Model	"H"	"J"	"K"	"L"	"L" w/BRAKE	M	N
SF71	∅ 4.500 4.498	∅0.531	∅7.875	10.69	12.72	2.88	1.45
	∅ 180.014 179.989	∅15	∅215	271.5	323.1	73.15	36.8
SF73	∅ 4.500 4.498	∅0.531	∅7.875	13.69	15.72	2.88	1.45
	∅ 180.014 179.989	∅15	∅215	347.7	399.3	73.15	36.8
SF74	∅ 4.500 4.498	∅0.531	∅7.875	15.19	17.22	2.88	1.45
	∅ 180.014 179.989	∅15	∅215	385.8	437.4	73.15	36.8
SF76	∅ 4.500 4.498	∅0.531	∅7.875	18.19	20.22	2.88	1.45
	∅ 180.014 179.989	∅15	∅215	462.0	513.6	73.15	36.8
SF77	∅ 4.500 4.498	∅0.531	∅7.875	19.69	21.72	2.88	1.45
	∅ 180.014 179.989	∅15	∅215	500.1	551.7	73.15	36.8

Model	"P"	"Q"	"R"	"S"	"T"	"U"	"V"
SF71	∅7.00	4.15	3.16	R0.42	∅9.49	3/8-16 UC-2B 0.56 DEEP	∅5.875
	∅177.8	105.4	80.2	R10.7	∅241	N.A.	N.A.
SF73	∅7.00	4.15	3.16	R0.42	∅9.49	3/8-16 UC-2B 0.56 DEEP	∅5.875
	∅177.8	105.4	80.2	R10.7	∅241	N.A.	N.A.
SF74	∅7.00	4.15	3.16	R0.42	∅9.49	3/8-16 UC-2B 0.56 DEEP	∅5.875
	∅177.8	105.4	80.2	R10.7	∅241	N.A.	N.A.
SF76	∅7.00	4.15	3.16	R0.42	∅9.49	3/8-16 UC-2B 0.56 DEEP	∅5.875
	∅177.8	105.4	80.2	R10.7	∅241	N.A.	N.A.
SF77	∅7.00	4.15	3.16	R0.42	∅9.49	3/8-16 UC-2B 0.56 DEEP	∅5.875
	∅177.8	105.4	80.2	R10.7	∅241	N.A.	N.A.