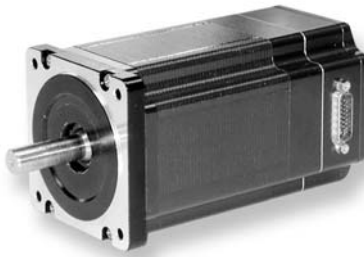
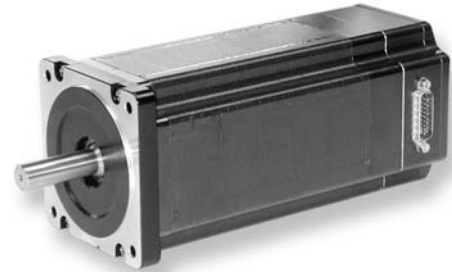


ServoStep Motor
ST341 Series



ServoStep Motor
ST342 Series

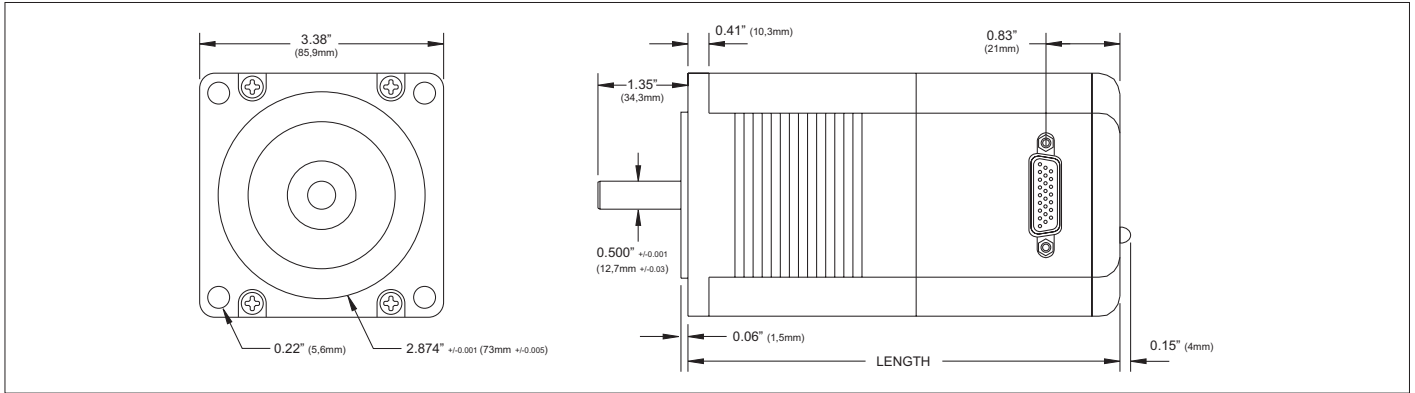


ServoStep Motor
ST343 Series

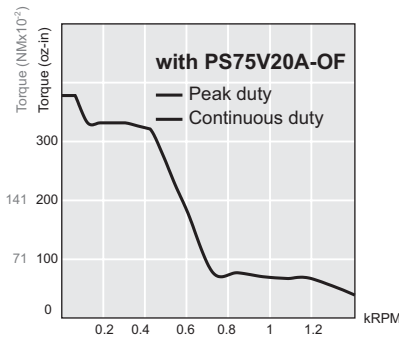
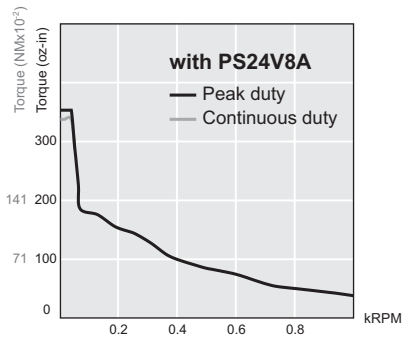
DESCRIPTION		UNITS	ST341	ST342	ST343	
Power	Input	VDC	20 - 80 (max)	20 - 80 (max)	20 - 80 (max)	
Environment	Operating Temperature	°F (°C)	32 to 185 (0 to 85)	32 to 185 (0 to 85)	32 to 185 (0 to 85)	
	Enclosure Rating (approximate)		IP40	IP40	IP40	
	Storage Temperature	°F (°C)	-4 to 185 (-20 to 85)	-4 to 185 (-20 to 85)	-4 to 185 (-20 to 85)	
	Humidity (non-condensing)	%	0 to 80	0 to 80	0 to 80	
Performance	Peak Torque (Tp)	oz-in (N-m)	372 (2.64)	789 (5.60)	1133 (8.03)	
	Continuous Torque (Tc)	oz-in (N-m)	372 (2.64)	729 (5.16)	1105 (7.83)	
	No Load Speed	RPM	1600	1600	1500	
	Nominal Power	HP (kW)	0.13 (0.10)	0.16 (0.12)	0.14 (0.10)	
	Servo Update	Hz	4069	4069	4069	
	PWM Frequency	kHz	33.3	33.3	33.3	
	Encoder	Type	Incremental	VDC	VDC	VDC
		Resolution	ppr (post-quad)	8000	8000	8000
	Memory	Volatile	kRAM	32	32	32
		Non-volatile	kRAM	28	28	28
Motor	Commutation		6-step Trapezoidal	6-step Trapezoidal	6-step Trapezoidal	
	Torque Constant (Kt)	oz-in/Amp (N-m/Amp)	NA	NA	NA	
	Rotor Inertia (Jm)	oz-in-s ² (10 ⁻⁵ kg-m ²)	0.0226 (16)	0.0481 (34.00)	0.0707 (50.00)	
	Insulation		Class B	Class B	Class B	
	Number of Poles (Np)		NA	NA	NA	
	Winding Resistance (R)	Ohms	1.4	1.12	1.52	
Input/Output	Number (Type)		10 (5VDC TTL)	10 (5VDC TTL)	10 (5VDC TTL)	
	Input	Digital	5VDC TTL sinking	5VDC TTL sinking	5VDC TTL sinking	
		Analog	Sinking input, 10 bit	Sinking input, 10 bit	Sinking input, 10 bit	
	Output	Sourcing	mA	5	5	5
		Sinking	mA	10	10	10
Encoder/Step & Direct Input Frequency	mHz	1	1	1		
Communications	Type		RS485; Serial (ASCII)	RS485; Serial (ASCII)	RS485; Serial (ASCII)	
	Speed	KBaud	2.4 to 38.4	2.4 to 38.4	2.4 to 38.4	
Physical	Radial Load	lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)	
	Axial Thrust Load	lbs (kg)	3 (1.4)	3 (1.4)	3 (1.4)	
	Width	in (mm)	3.38 (85.9)	3.38 (85.9)	3.38 (85.9)	
	Length	in (mm)	5 (127)	6.5 (165)	8.0 (204)	
	Weight (Wt)	lbs (kg)	6.18 (2.80)	9.68 (4.39)	13.18 (5.98)	
	Shaft Diameter**	in (mm)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	
	Pilot Diameter**	in (mm)	2.874 (73)	2.874 (73)	2.874 (73)	
	Bolt Circle Diameter**	in (mm)	3.876 (98.5)	3.876 (98.5)	3.876 (98.5)	

Performance spec based on PS75V6A-OF

Note: ** check tolerance in drawings



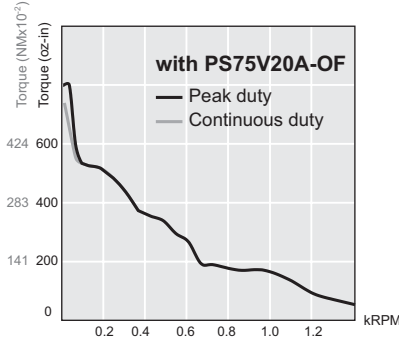
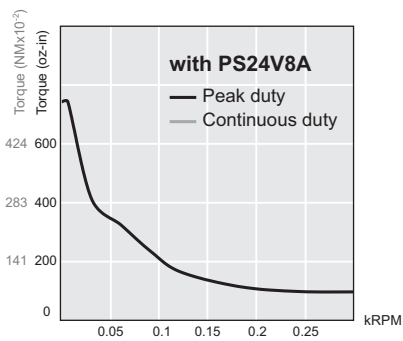
SMARTMOTOR ST341



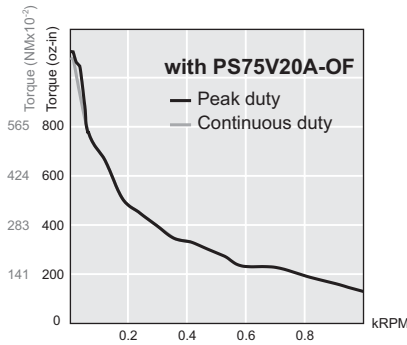
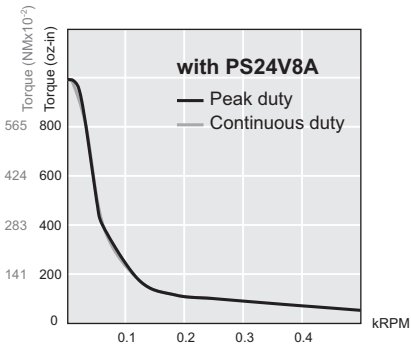
Notes:

1. Custom windings are available on select SmartMotors. These special windings allow SmartMotors to achieve higher speeds or greater torque. Please consult factory for specific details.
2. Custom shaft lengths and diameters are available on select SmartMotors. Flats and keyways are common options found on motor shafts. SmartMotors can be purchased with various versions of these shaft modifications. Please consult factory for available shaft options.
3. Torque vs. Speed curve data is derived under dynamometer testing using a PS75V6A-OF power supply at an ambient temperature of 27°C (80.6°F).
4. Connector kits and cable options found on pp. 68 and 69.

SMARTMOTOR ST342



SMARTMOTOR ST343



SmartMotors
ST341, ST342 and ST343
are CE marked

**26 Pin, High Density
D-Sub I/O Connector**

