

SM17205D		
Continuous Torque	2.08	in-lb
	33	oz-in
	0.24	N-m
Peak Torque	3.82	in-lb
	61	oz-in
	0.43	N-m
Nominal Continuous Power	145	Watt
No Load Speed	7,900	RPM
Max. Continuous Current* @ 6000 RPM	3.81	Amps
Peak Power @ 4200 RPM	185	Watts
Voltage Constant	6.506	V/kRPM
Inductance	1.4	mH
Encoder Resolution	4,000	Counts/Rev
Rotor Inertia	0.00217	oz-in-sec <sup>2</sup>
	1.5325	10 <sup>-5</sup> Kg-m <sup>2</sup>
Weight	1.2	lb
	0.55	kg
Shaft Diameter	0.197	in
	5.00	mm
Shaft, Radial Load	7	lb
	3.18	kg
Shaft, Axial Thrust Load	3	lb
	1.36	kg
DeviceNet Available	Yes	
PROFIBUS Available		
CANopen Available	Yes	

\*Default voltage is 48V. See graphs for additional voltages.

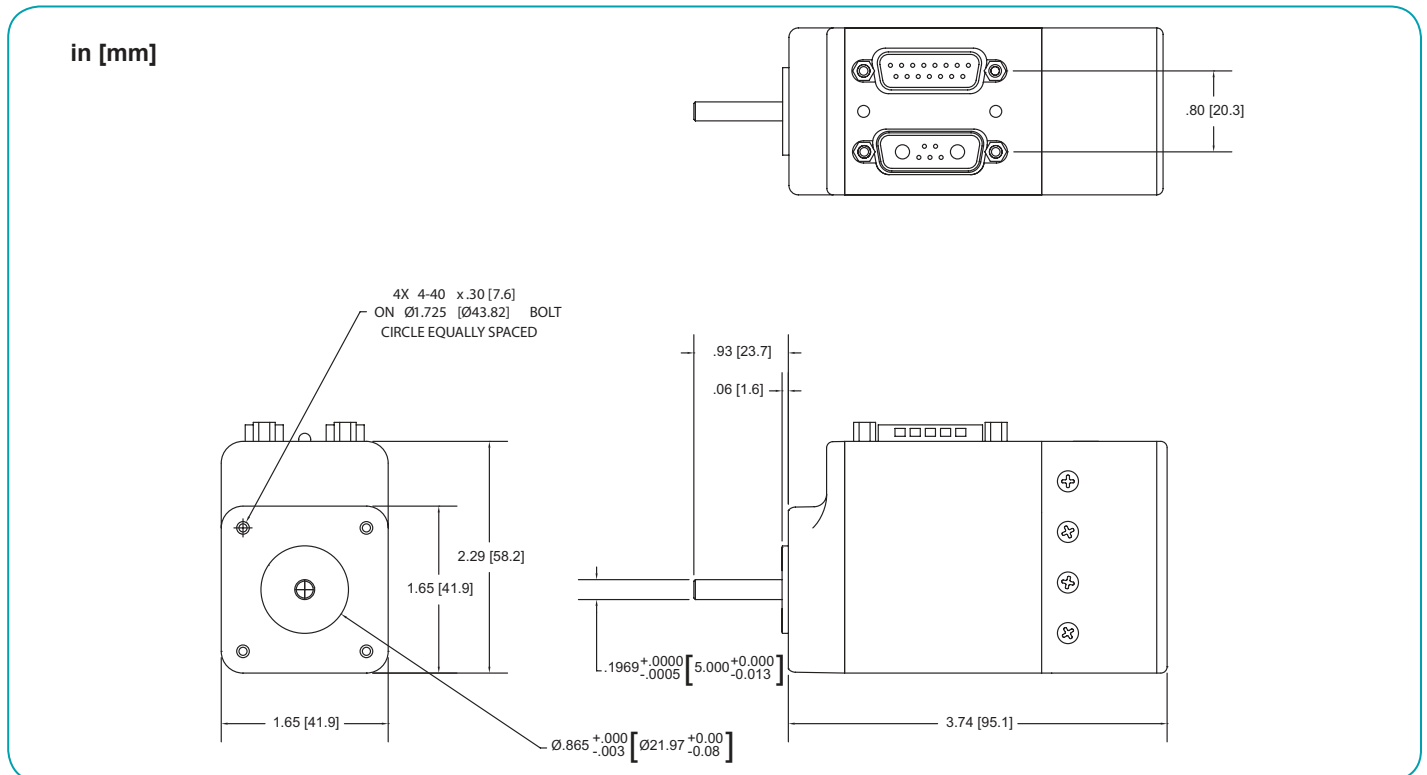


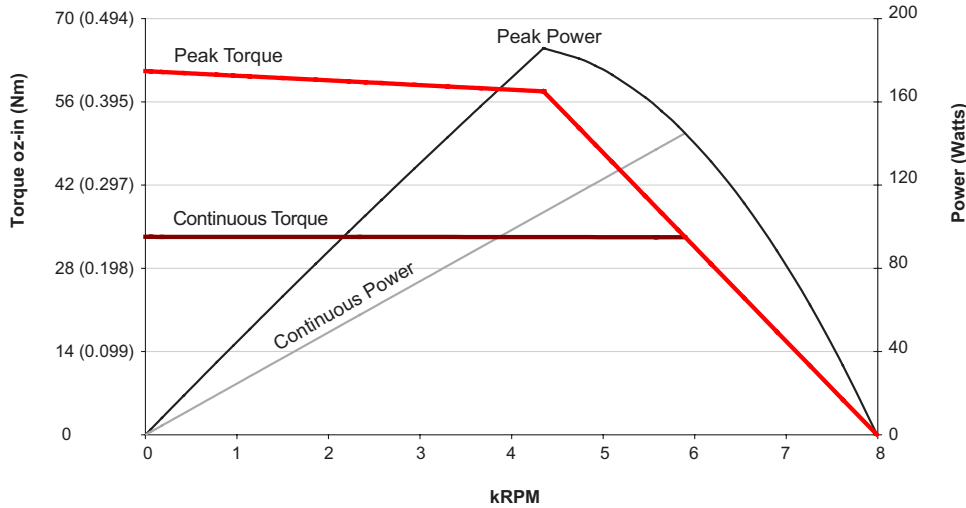
Operating temperature range: 0°C–85°C  
Storage temperature range: -10°C–85°C, noncondensing

**NOTE: Motor specifications are subject to changes without notice. Consult website and factory for latest data.**

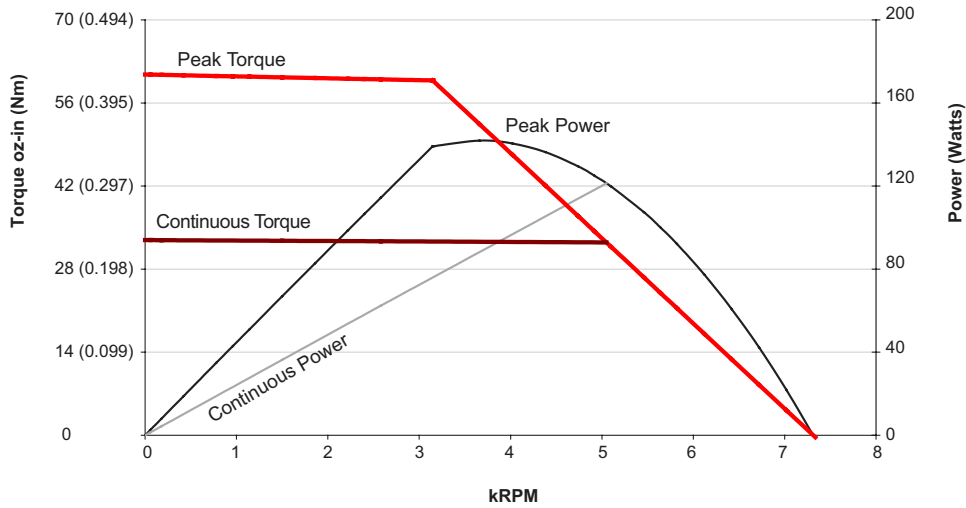


## Moog Animatics SmartMotor™ SM17205D (No Options) CAD Drawing

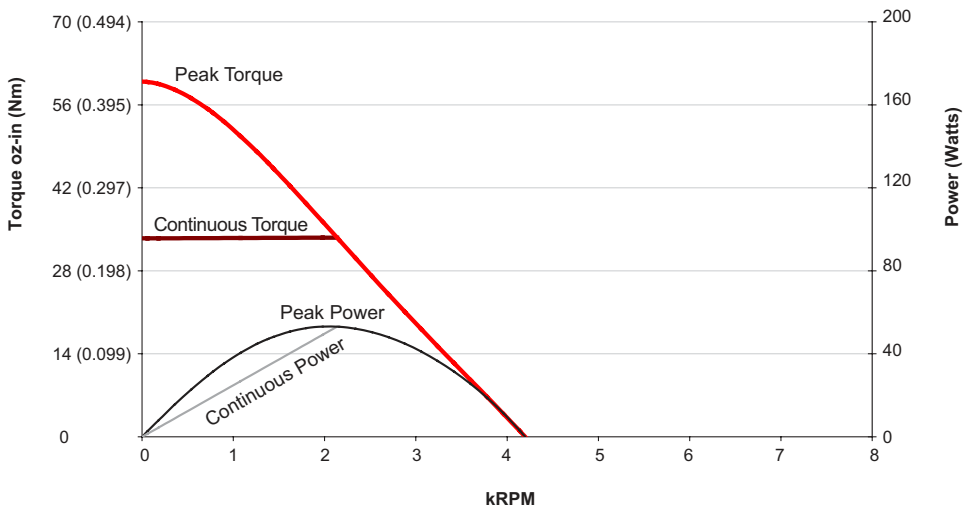




**SM17205D  
at 48 VDC  
at rise to 85°C**



**SM17205D  
at 42 VDC  
at rise to 85°C**



**SM17205D  
at 24 VDC  
at rise to 85°C**

All torque curves based on 25°C ambient.  
Motors were operated using MDT (Trapezoidal Drive Mode) Commutation.  
For ambient temperatures above 25°C, Continuous Torque must be linearly derated to 0% at 85°C.