

SM34165D		
Continuous Torque	9.67	in-lb
	155	oz-in
	1.09	N-m
Peak Torque	14.12	in-lb
	226	oz-in
	1.60	N-m
Nominal Continuous Power	235	Watt
No Load Speed	3,100	RPM
Max. Continuous Current* @ 2400 RPM	6.02	Amps
Peak Power @ 1900 RPM	265	Watts
Voltage Constant	14.98	V/kRPM
Inductance	1.72	mH
Encoder Resolution	8,000	Counts/Rev
Rotor Inertia	0.014	oz-in-sec <sup>2</sup>
	9.890	10 <sup>-5</sup> Kg-m <sup>2</sup>
Weight	5.0	lb
	2.27	kg
Shaft Diameter	0.375	in
	9.53	mm
Shaft, Radial Load	15	lb
	6.80	kg
Shaft, Axial Thrust Load	3	lb
	1.36	kg
DeviceNet Available	Yes	
PROFIBUS Available	Yes	
CANopen Available	Yes	

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



Operating temperature range: 0°C–85°C

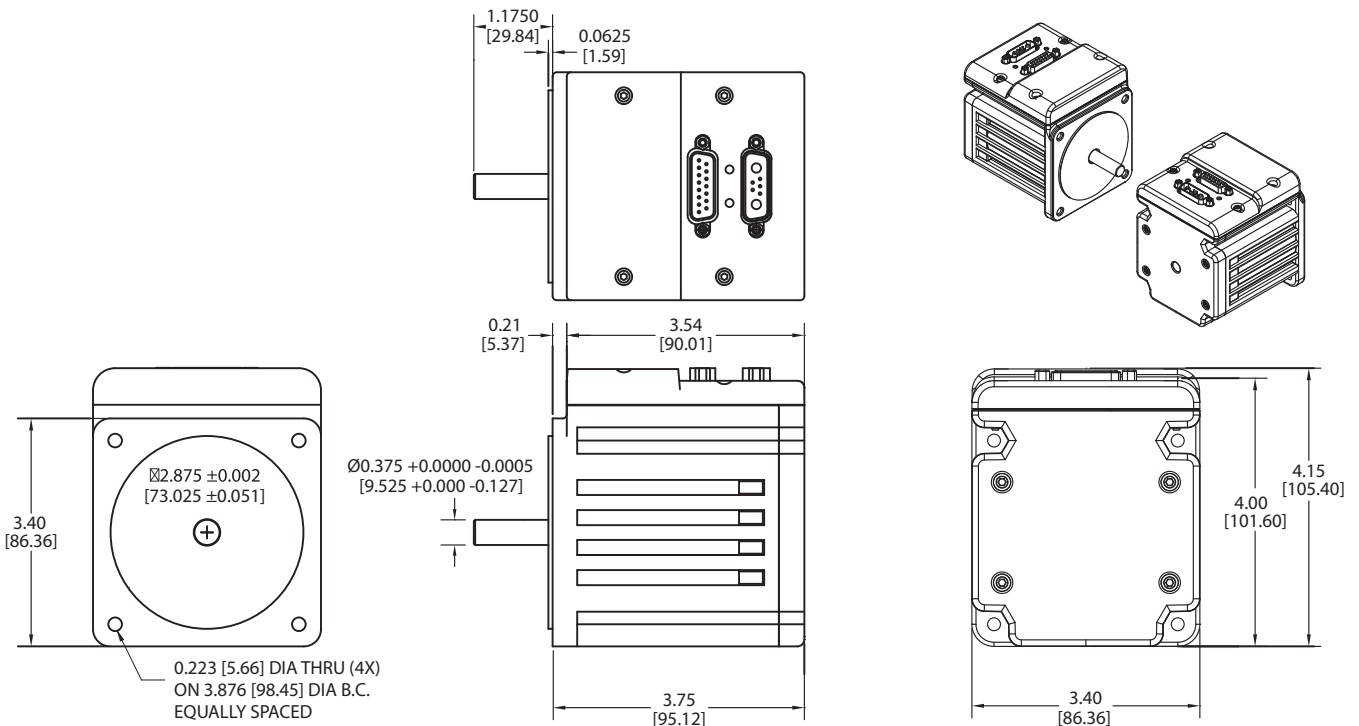
Storage temperature range: -10°C–85°C, noncondensing

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

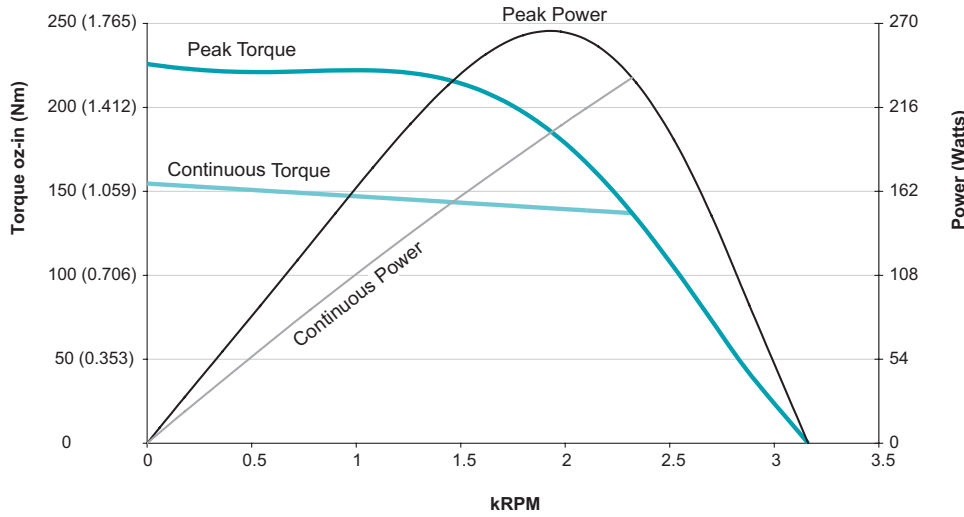


## Moog Animatics SmartMotor™ SM34165D (No Options) CAD Drawing

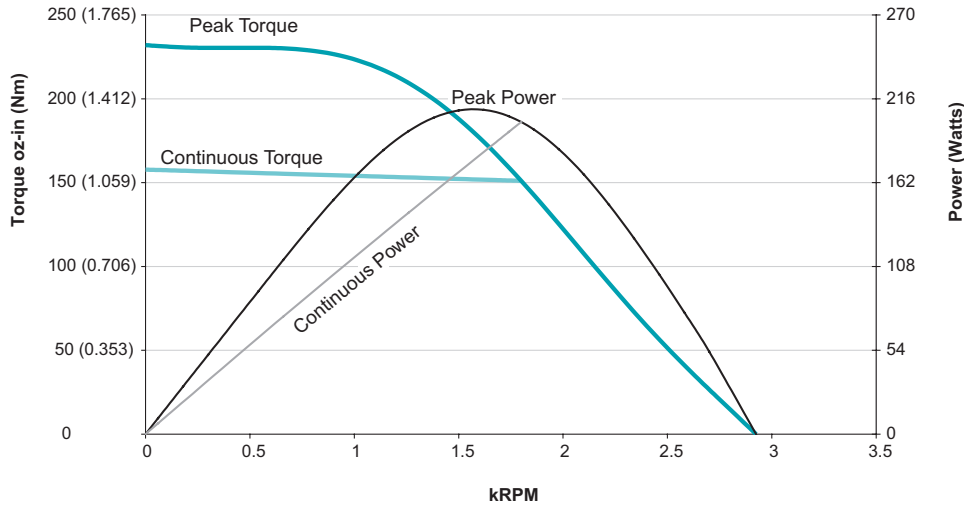
in [mm]



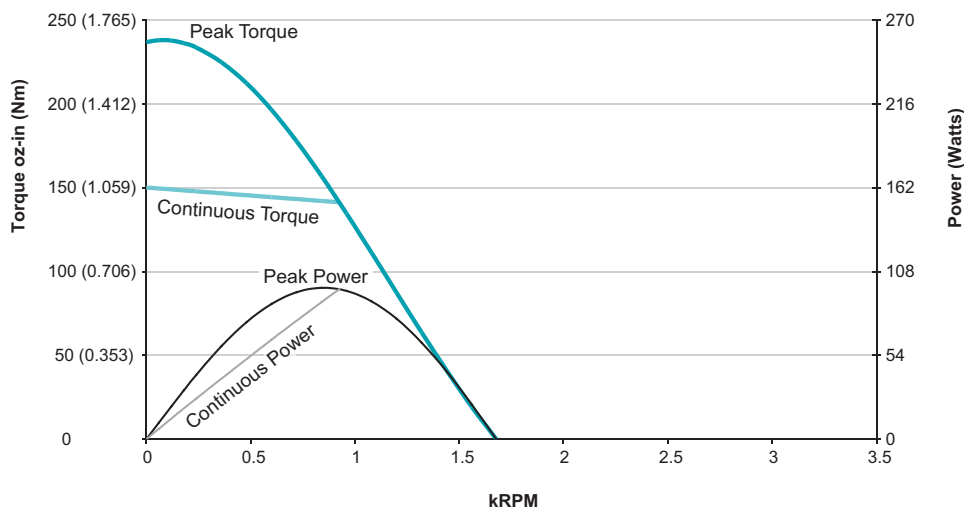
OVERVIEW  
SOFTWARE  
D-STYLE MOTORS  
D-STYLE CONNECTIVITY  
PERIPHERALS  
M-STYLE MOTORS  
M-STYLE CONNECTIVITY  
LINEAR SYSTEMS  
POWER SUPPLIES & SHUNTS  
GEAR HEADS  
APPENDIX



**SM34165D**  
**at 48 VDC**  
**at rise to 85°C**



**SM34165D**  
**at 42 VDC**  
**at rise to 85°C**



**SM34165D**  
**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.