

SmartMotor™ Series	SM34165MT	
Continuous Torque @ 48V	12.58	in-lb
	201	oz-in
	1.42	N-m
Peak Torque	34.88	in-lb
	558	oz-in
	3.94	N-m
Nominal Continuous Power	472	Watt
No Load Speed	4,900	RPM
Max. Continuous Current* @ 4500 RPM	13	Amps
Peak Power @ 3300 RPM	1,120	Watts
Voltage Constant	9.8	V/kRPM
Inductance	0.315	mH
Encoder Resolution	8,000	Counts/Rev
Rotor Inertia	0.0142	oz-in-sec ²
	10.031	10 ⁻⁵ Kg-m ²
Weight	6.0	lb
	2.72	kg
Shaft Diameter	0.500	in
	12.70	mm
Shaft, Radial Load	30	lb
	13.61	kg
Shaft, Axial Thrust Load	3	lb
	1.36	kg
DeviceNet Available	Firmware Option	
PROFIBUS Available		
CANopen Available	Standard	



Operating temperature range: 0°C–85°C

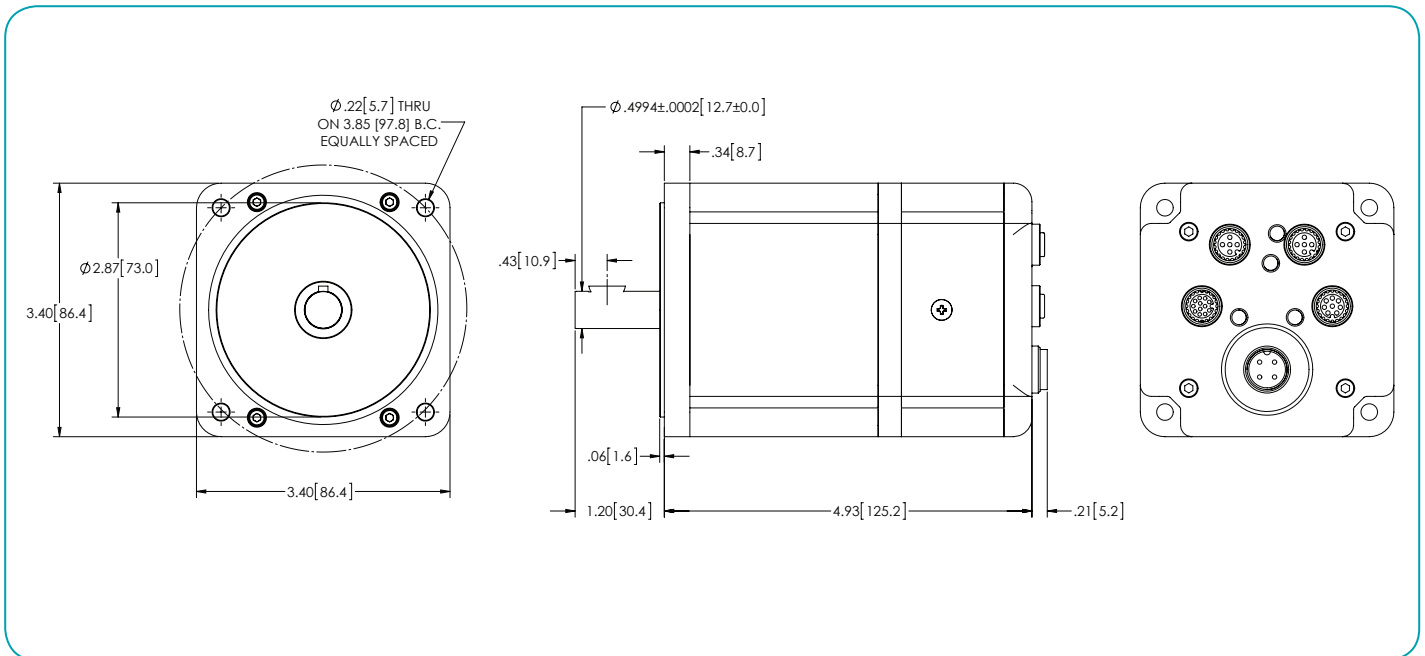
Storage temperature range: -10°C–85°C, noncondensing

IP rating depends on motor options. IP rating may affect motor performance.

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

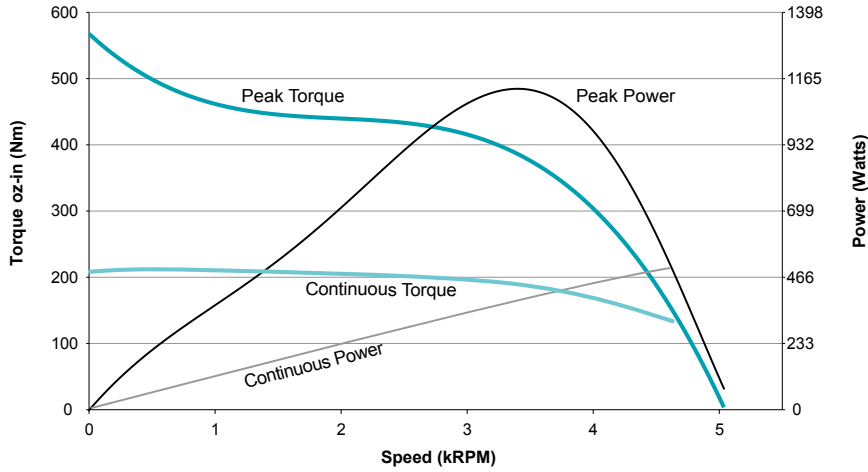


Moog Animatics SmartMotor SM34165MT (No Options) CAD Drawing

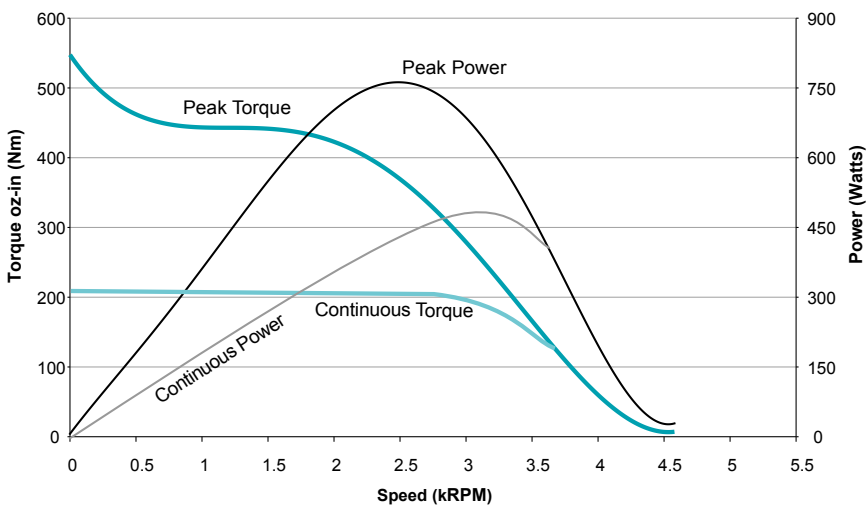


Drive Power and Control Power are Separate Inputs. Control Power is rated to a maximum range of 18 to 32VDC. Drive Power is from 18 to 48VDC max.

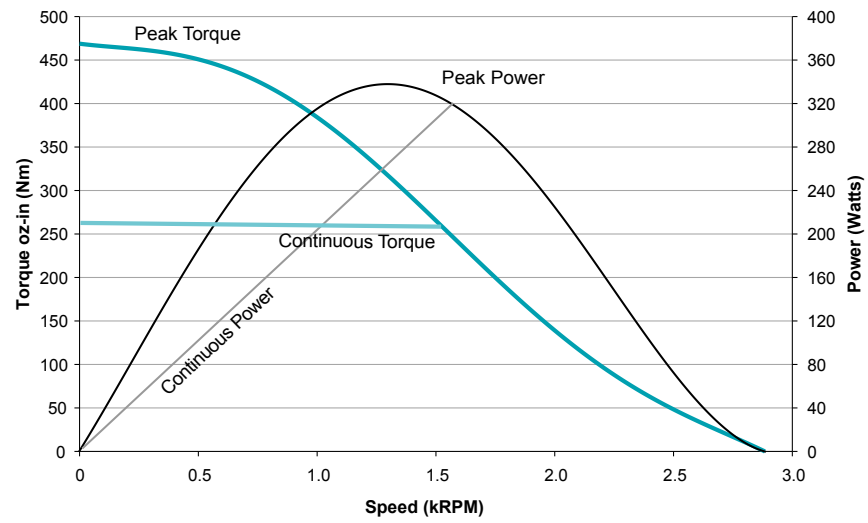
OVERVIEW
SOFTWARE
D-STYLE MOTORS
D-STYLE CONNECTIVITY
PERIPHERALS
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M-STYLE CONNECTIVITY
LINEAR SYSTEMS
POWER SUPPLIES & SHUNTS
GEAR HEADS
APPENDIX



SM34165MT MDE Mode at 48 VDC at rise to 85°C with PFC1500W-48V



SM34165MT MDE Mode at 42 VDC at rise to 85°C with PS42V20A



SM34165MT MDE Mode at 24 VDC at rise to 85°C with PS24V8AG-110

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