

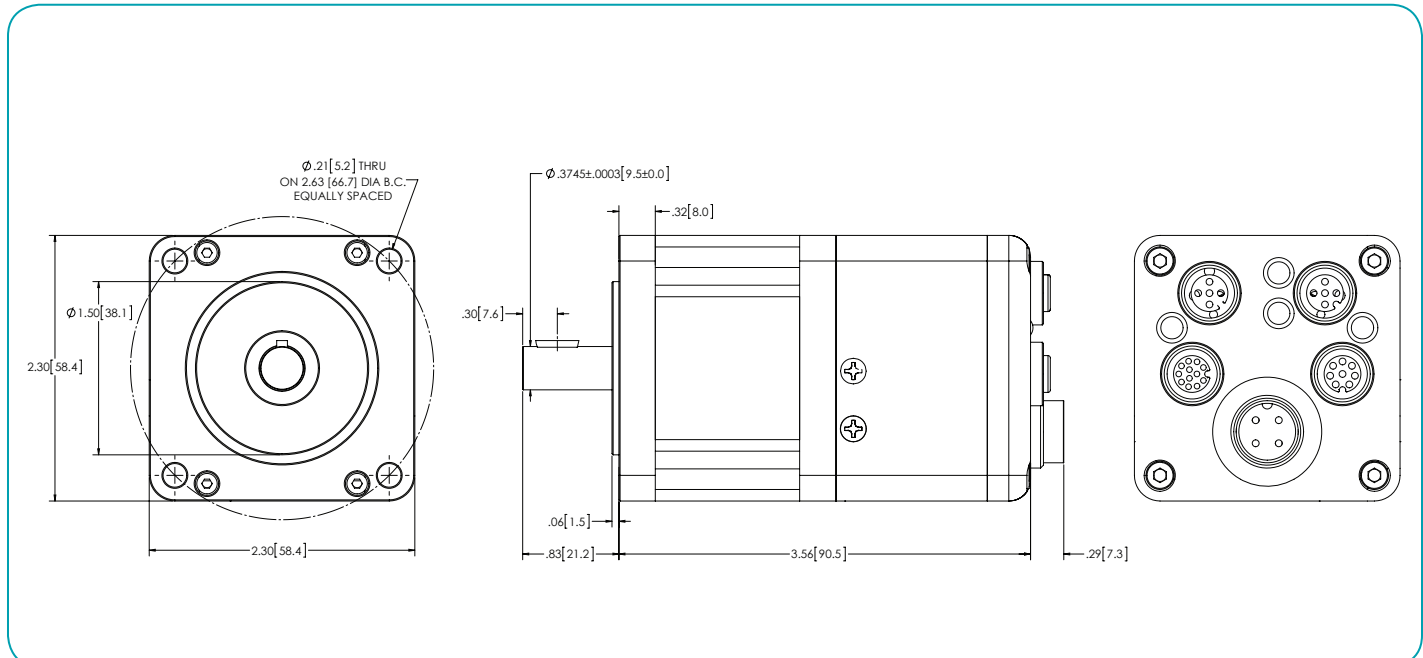
SmartMotor™ Series	SM23165MT
Continuous Torque @ 48V	4.25 in-lb
	68 oz-in
	0.48 N-m
Peak Torque	9.45 in-lb
	151 oz-in
	1.07 N-m
Nominal Continuous Power	189 Watt
No Load Speed	5,000 RPM
Max. Continuous Current* @ 3700 RPM	6.4 Amps
Peak Power @ 2800 RPM	255 Watts
Voltage Constant	9.6 V/kRPM
Inductance	2.01 mH
Encoder Resolution	4,000 Counts/Rev
Rotor Inertia	0.001 oz-in-sec ²
	0.706 10 ⁻⁵ Kg-m ²
Weight	1.5 lb
	0.68 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	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.

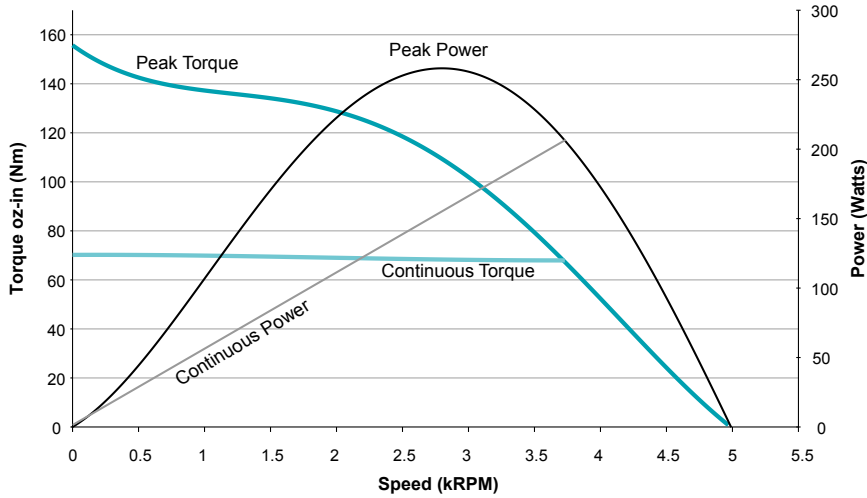


Moog Animatics SmartMotor SM23165MT (No Options) CAD Drawing

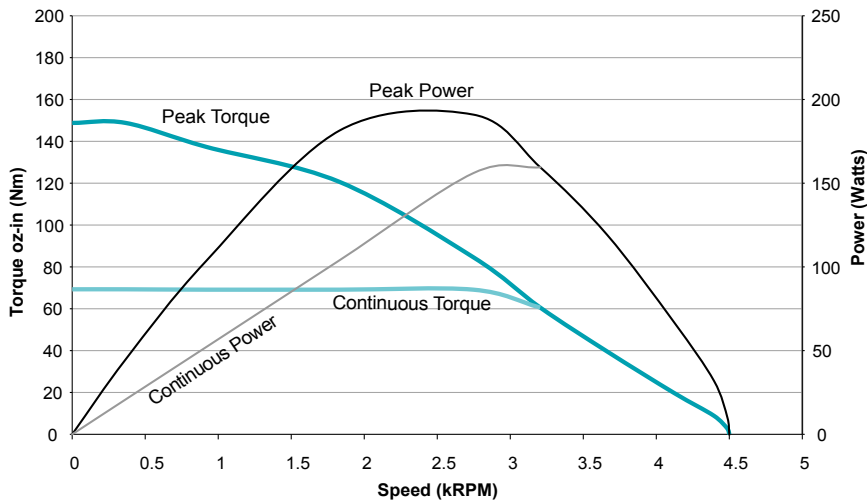


Drive Power and Control Power are Separate Inputs. Control Power is rated to a range of 18 to 32VDC max. Drive Power is from 18 to 48VDC max.

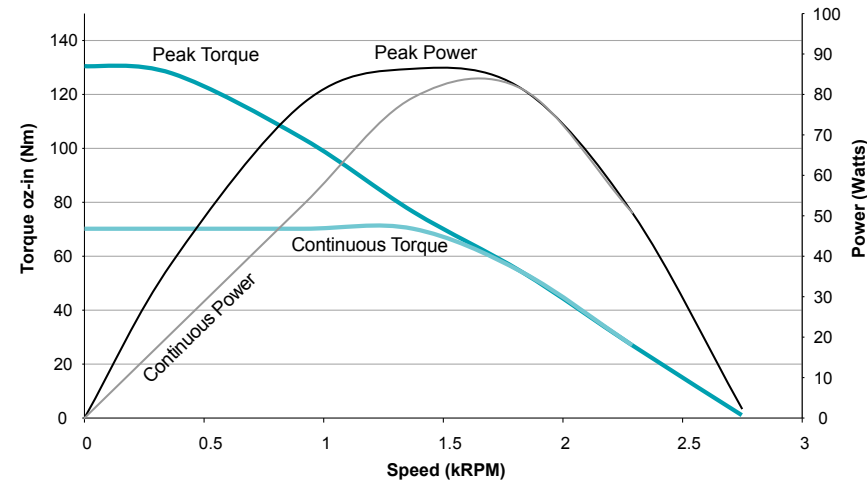
OVERVIEW
SOFTWARE
D-STYLE MOTORS
D-STYLE CONNECTIVITY
PERIPHERALS
M-STYLE MOTORS
M-STYLE CONNECTIVITY
LINEAR SYSTEMS
POWER SUPPLIES & SHUNTS
GEAR HEADS
APPENDIX



SM23165MT MDE Mode at 48 VDC
at rise to 85°C
with PFC1500W-48V



SM23165MT MDE Mode at 42 VDC
at rise to 85°C
with PS42V20AF110



SM23165MT MDE Mode at 24 VDC
at rise to 85°C
with PS24V8A-110G

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.