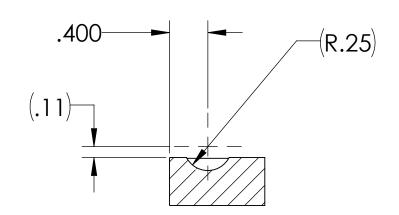
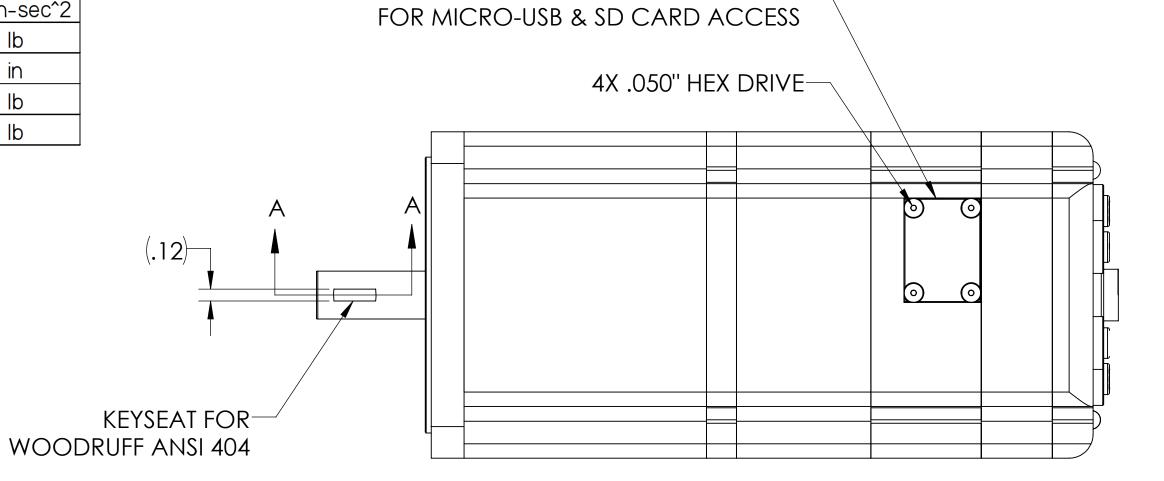
Item ID: SM34166MT2-BRK-EIP RevisiongC Name: SMARTMOTOR, SM34, MT2, BRK, EIP

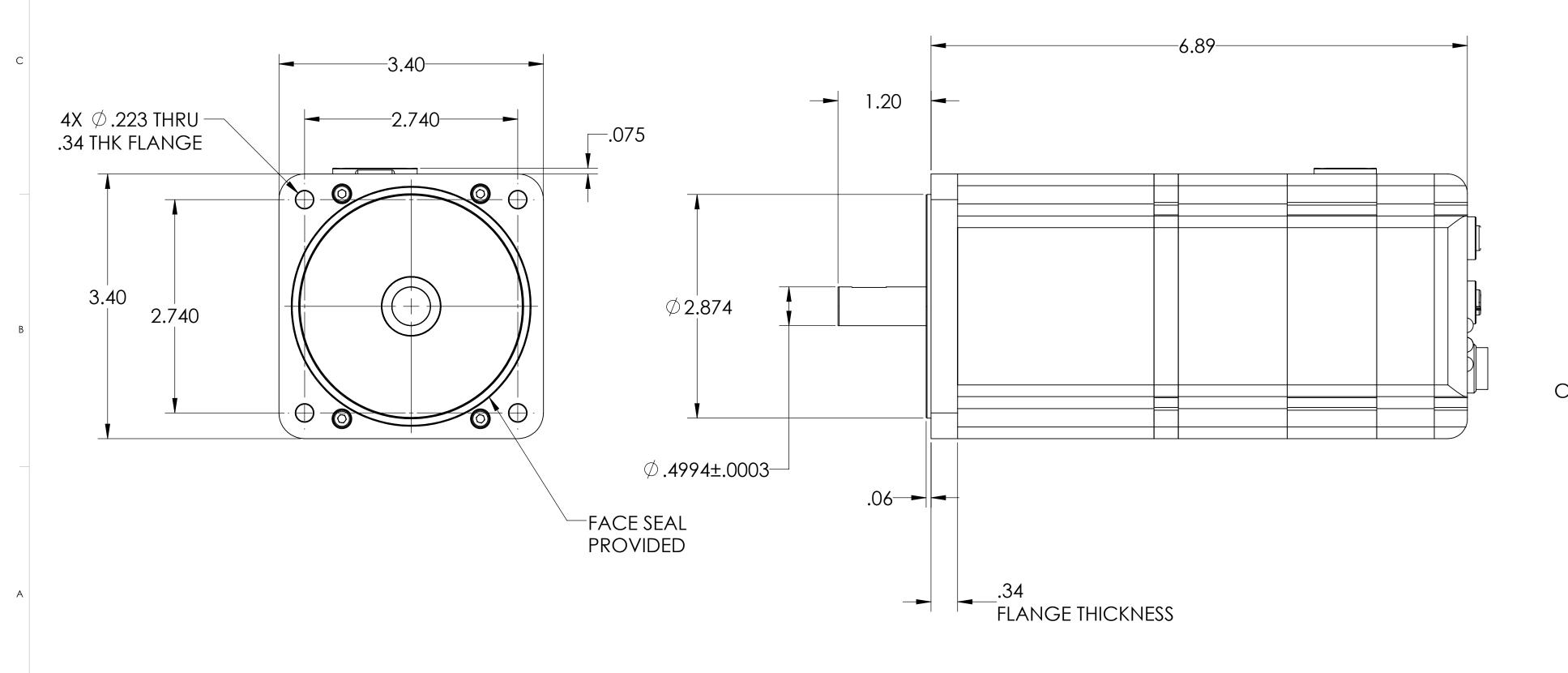
Performance at 25°C		
Performance	Value	Units
Continuous Torque @48V	190	oz-in
Peak Torque	330	oz-in
Nominal Continous Power	460	Watts
No Load Speed	4900	RPM
Max. Continous Current @ 4500 RPM	13	Amps
Peak Power @ 3300 RPM	1100	Watts
Voltage Constant	8.9	V/krpm
Inductance	0.315	mH
Winding resistance	0.055	0hms
Encoder Resolution	4000	counts/rev
Rotor Inertia	0.0142	oz-in-sec^2
Weight	7.5	lb
Shaft Diameter	0.5	in
Shaft, Radial Load	30	lb
Shaft, Axial Thrust Load	3	lb



SECTION A-A



REMOVABLE ACCESS DOOR—



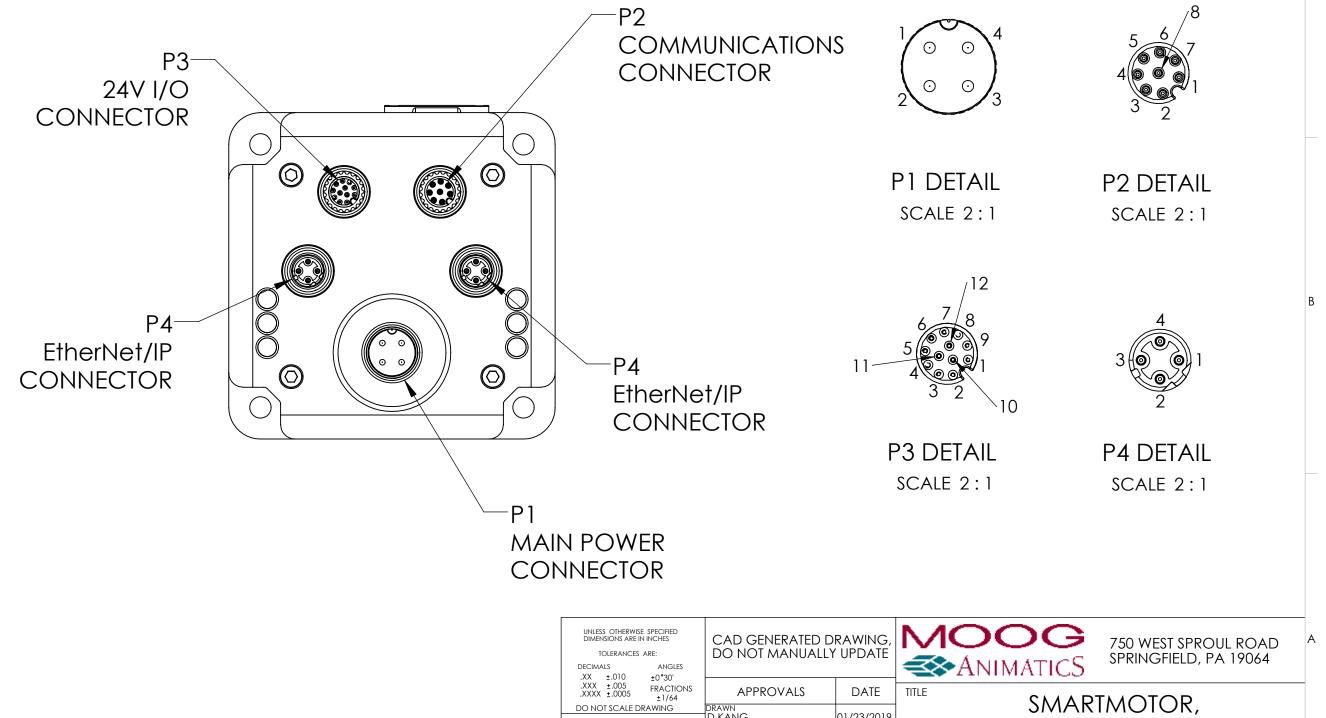
		revision information	
REV.	ECN	DESCRIPTION	DATE
Α	SC001624	PRODUCTION RELEASE	02/01/2019
В	SC001645	MODIFIED PERFORMANCE TABLE	3/6/2019
С	SC001660	ADDED SURFACE MODEL	4/1/2019

PI Main Power Connector			
Pin	Description	Specifications	Notes
_	Control Power In	+24V (±20%), 32V Max.	Also Supplies I/O
2	Chassis		
3	Control, Com, I/O and Amplifier Ground	Common Ground	Nonisolated
4	Amplifier Power In	+24V Min, 48V Max.	Powers Amplifier Only

P2 Communications Connector			
Pin	Description	Specifications	Notes
- 1	Control, Com, I/O and Amp Ground	Common Ground	Nonisolated
2	RS-485 B, Com ch. 0	115.2 KBaud Max.	
3	RS-485 A, Com ch. 0	115.2 KBaud Max.	
4	Encoder A+ Input/Output	125 KHz Individual Line Frequency	Configurable as Encoder Output
5	Encoder B- Input/Output	125 KHz Individual Line Frequency	Configurable as Encoder Output
6	Encoder A- Input/Output	125 KHz Individual Line Frequency	Configurable as Encoder Output
7	+5V Out	50 mA Max.	
8	Encoder B+ Input/Output	125 KHz Individual Line Frequency	Configurable as Encoder Output

P3 24V I/O Connector			
Pin	Description	Specifications	Notes
I	INO GP, Discrete or Analog Input	Inp Impedance > 10 kohm	For Inputs
2	INI GP, Discrete or Analog Input	Inp Impedance > 10 kohm	7 Configurable Inputs
3	IN2 Pos Limit or GP	Inp Impedance > 10 kohm	Low LvI ThId: 3.6V Max.
4	IN3 Neg Limit or GP	Inp Impedance > 10 kohm	High LvI Thld: 5.0V Min.
5	IN/OUT4 GP or Ext Enc. Index Capture	Inp Impedance > 10 kohm	Inp Hysteresis: I.0V Min.
6	IN/OUT5 GP or Int Enc. Index Capture	Inp Impedance > 10 kohm	Analog Input Scale: IOV FS
7	IN6 GP, G Cmd	Inp Impedance > 10 kohm	
œ	IN7 Drive Enable	Inp Impedance > 10 kohm	
თ	OUT8 Brake or GP	250 mAmps Max.	For Outputs: Do Not Exceed
10	OUT9 NOT FAULT	250 mAmps Max.	500 mAmps Combined
П	+24 VDC Out (Supplied from PI, Pin I)	12.5V Min., 23V Max. Load 2 Amps Max.	
12	Ground Common	Common Ground	Nonisolated

P4 EtherNet/IP Connectors			
⊃in	Description	Specifications	Notes
I	+TX		
2	+RX		
3	-TX		
4	-RX		



APPROVALS

DATE TITLE

D 1K426

01/23/2019

SMARTMOTOR, SM34, MT2, BRK, EIP

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