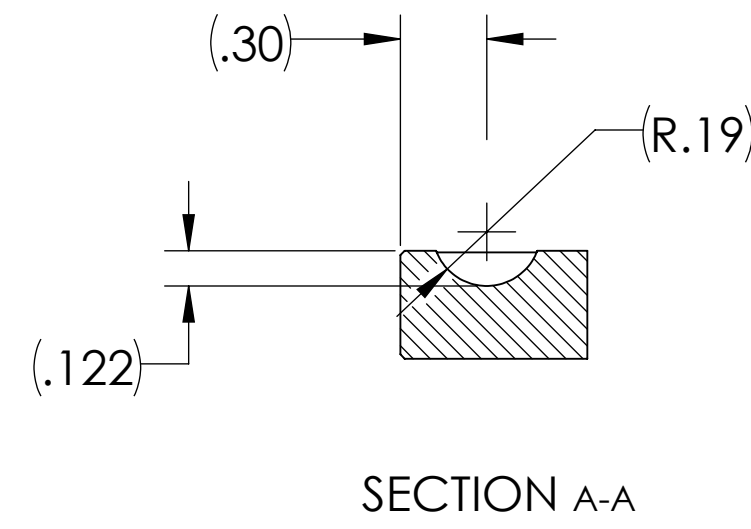


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REVISION INFORMATION			
REV.	ECN	DESCRIPTION	DATE
A	SC001705	PRODUCTION RELEASE	07/15/2019

Motor Performance at 25°C		
Performance	Value	Units
Continuous Torque @48V	113	oz-in
Peak Torque	133	oz-in
Nominal Continuous Power	210	Watts
Nominal Peak Power	255	Watts
No Load Speed	3900	RPM
Voltage Constant	9.08	V/krpm
Winding Resistance	0.743	Ohms
Encoder Resolution	4000	counts/rev
Rotor Inertia	1.03	oz-in-sec ²
Weight	2.78	lb
Shaft Diameter	0.375	in
Shaft, Radial Load	15	lb
Shaft, Axial Thrust Load	3	lb

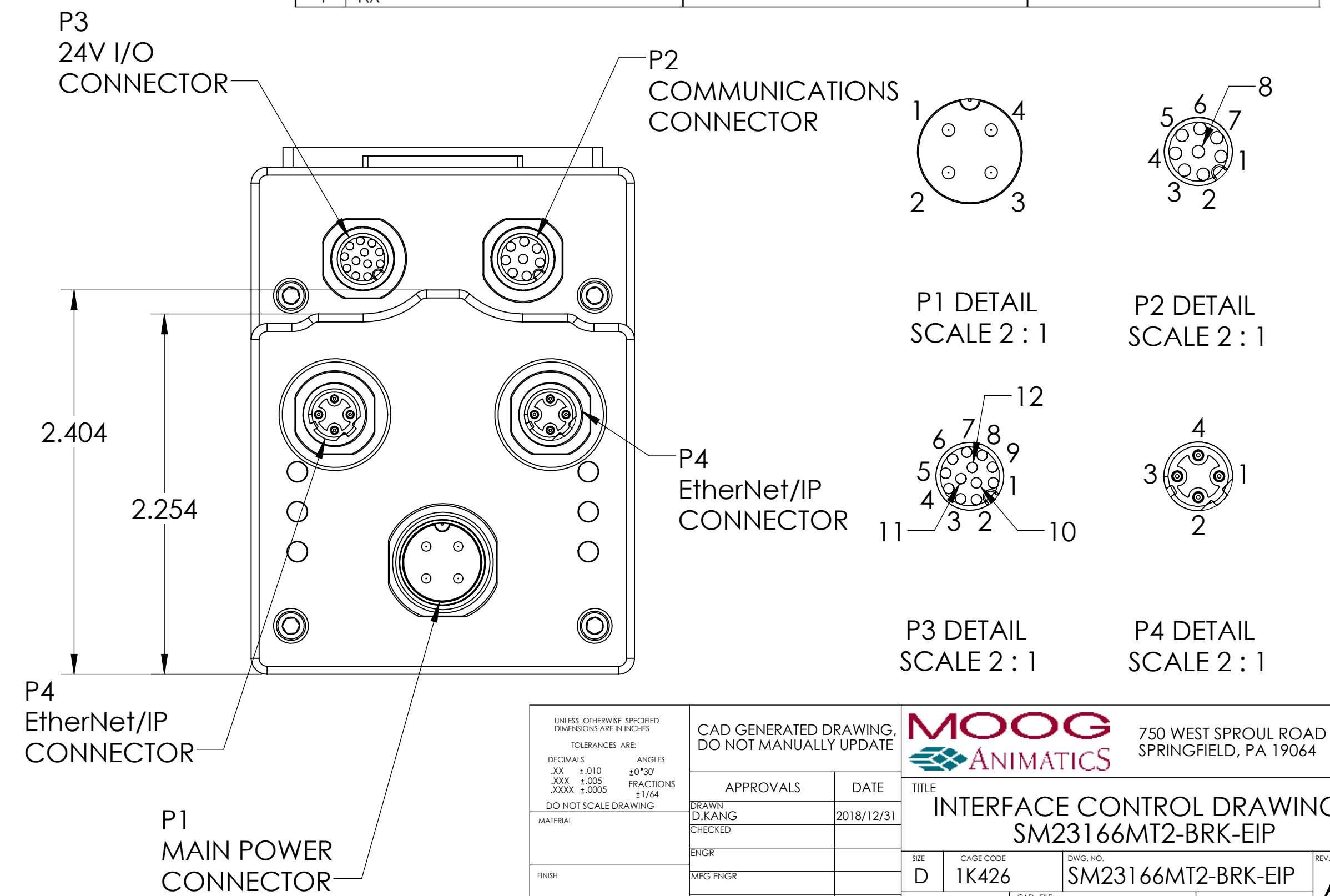
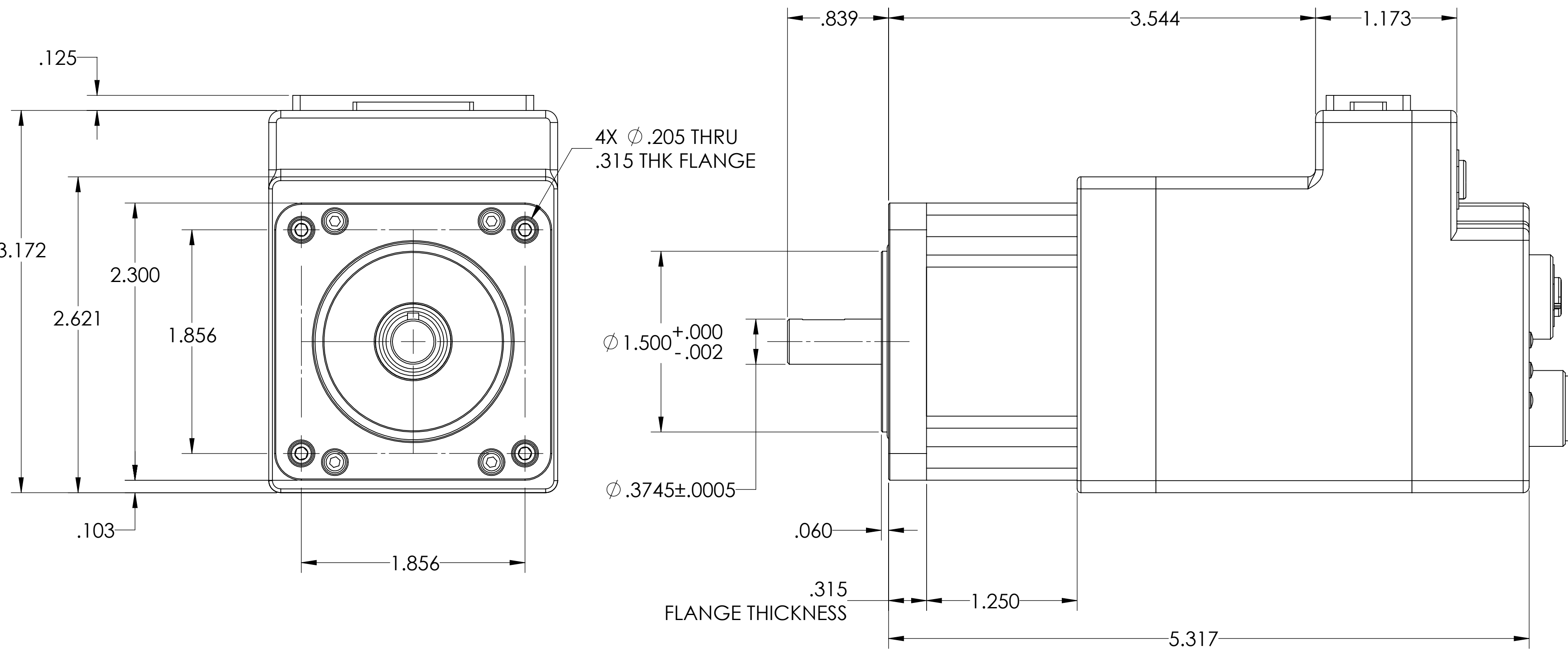


P1 Main Power Connector			
Pin	Description	Specifications	Notes
1	Control Power In	+24V (±20%), 32V Max.	Also Supplies I/O
2	Chassis		
3	Control, Com, I/O and Amplifier Ground	Common Ground	Nonisolated
4	Amplifier Power In	+24V Min., 48V Max.	Powers Amplifier Only

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	1152 Kbaud Max.	
3	RS-485 A, Com ch. 0	1152 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
1	IN0 GP, Discrete or Analog Input	Inp Impedance > 10 kohm	For Inputs:
2	IN1 GP, Discrete or Analog Input	Inp Impedance > 10 kohm	7 Configurable Inputs
3	IN2 Pos Limit or GP	Inp Impedance > 10 kohm	Low Lvl Thld: 3.6V Max.
4	IN3 Neg Limit or GP	Inp Impedance > 10 kohm	High Lvl Thld: 5.0V Min.
5	INOUT4 GP or Ext Enc. Index Capture	Inp Impedance > 10 kohm	Inp Hysteresis: 1.0V Min.
6	INOUT5 GP or Int Enc. Index Capture	Inp Impedance > 10 kohm	Analog Input Scale: 10V FS
7	IN6 GP, G Cmd	Inp Impedance > 10 kohm	
8	IN7 Drive Enable	Inp Impedance > 10 kohm	
9	OUT8 Brake or GP	250 mAmps Max.	For Outputs: Do Not Exceed
10	OUT9 NOT FAULT	250 mAmps Max.	500 mAmps Combined
11	+24 VDC Out (Supplied from P1, Pin 1)	12.5V Min., 23V Max. Load 2 Amps Max.	
12	Ground Common	Common Ground	Nonisolated

P4 EtherNet/IP Connectors			
Pin	Description	Specifications	Notes
1	+TX		
2	+RX		
3	-TX		
4	-RX		



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE				750 WEST SPROUL ROAD SPRINGFIELD, PA 19064	
TOLERANCES ARE:		APPROVALS		DATE		TITLE	
DECIMALS	ANGLES			2018/12/31		INTERFACE CONTROL DRAWING, SM23166MT2-BRK-EIP	
.XX	±.010					DRAWN: D.KANG	
.XXX	±.005					CHECKED:	
.XXXX	±.0005					ENGR:	
DO NOT SCALE DRAWING						MFG ENGR:	
						QA:	
						SIZE: D	
						CAGE CODE: 1K426	
						DWG. NO.: SM23166MT2-BRK-EIP	
						REV. A	
						SCALE: 3:2	
						SHEET 1 OF 1	
						Released Date: 23-Jul-2019 10:52	