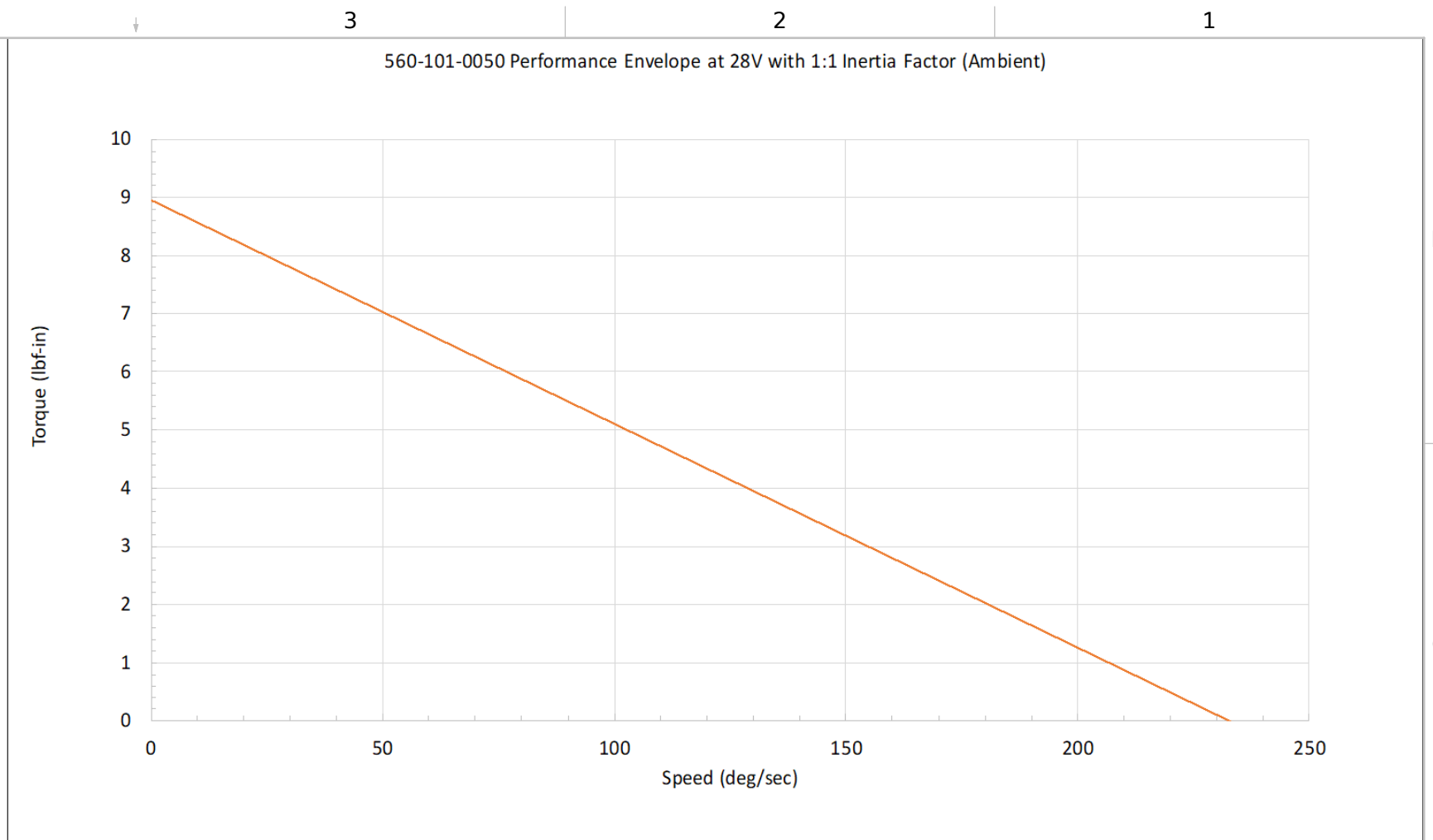
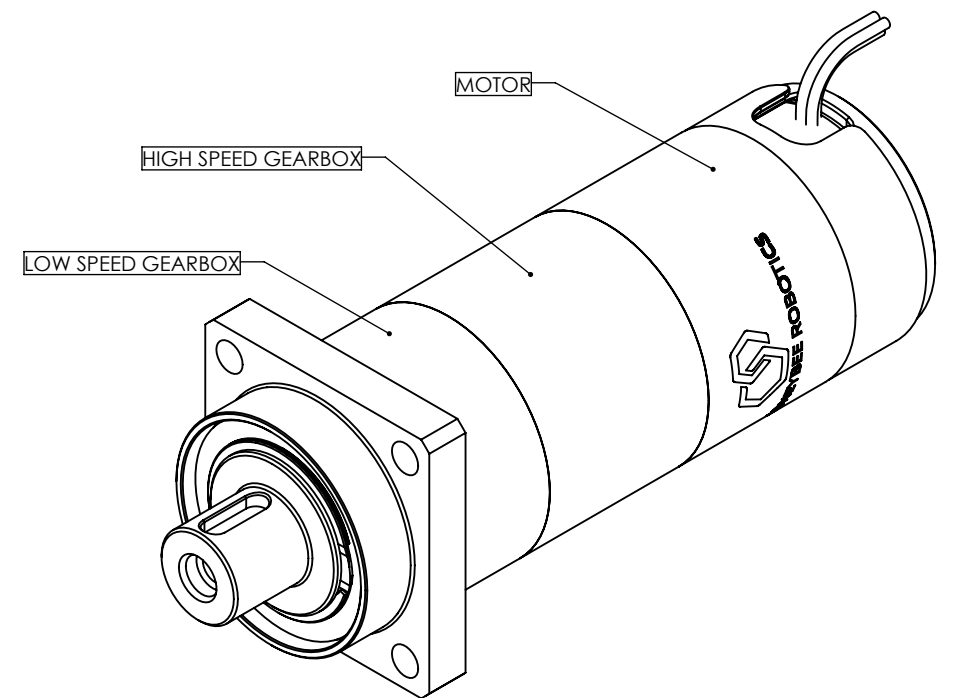
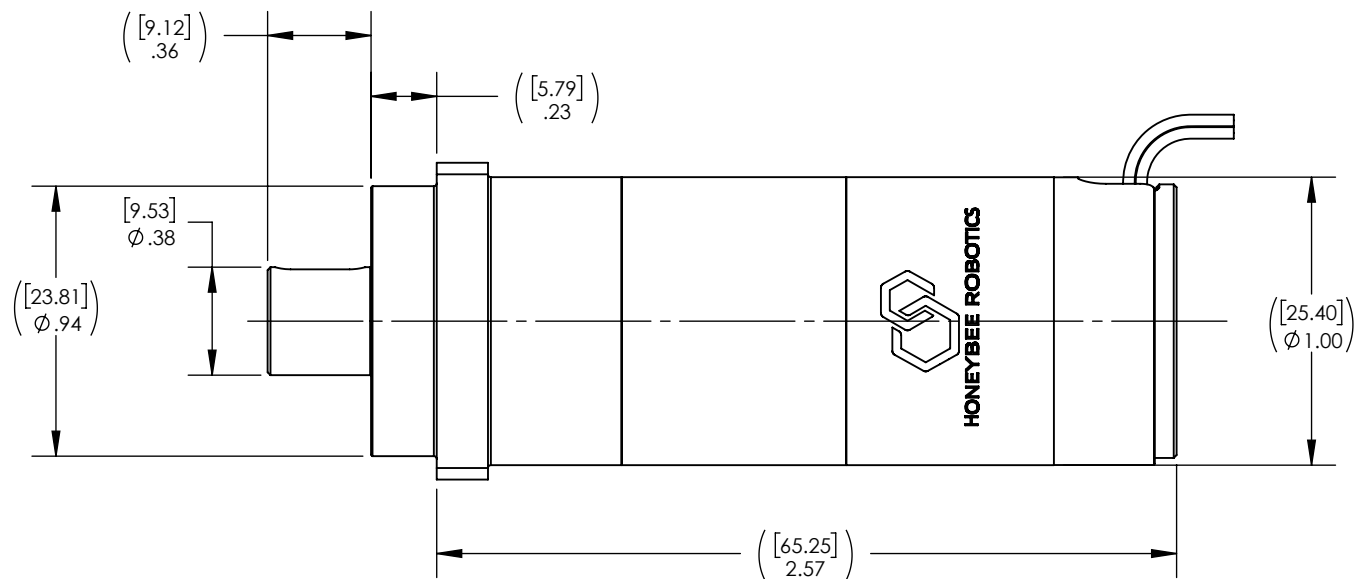
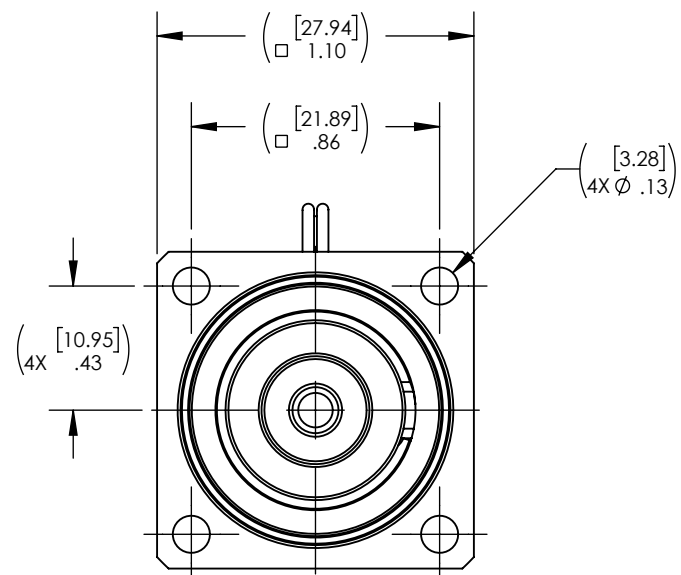


MECHANICAL PARAMETERS	UNITS	
FRAME SIZE	-	C
MASS	lbm [kg]	0.45 [.21]
ROTOR INERTIA	oz-in-sec ² x 10 ⁻³ [g cm ²]	0.038 [2.71]
OPERATING TEMPERATURE RANGE	°C	-60 TO +200
MOTOR PARAMETERS		
DRIVE TYPE	-	3 PHASE - 6 STEP OR 2 LEGS TIED
NUMBER OF PHASES	#	3
NUMBER OF POLE PAIRS	-	4
REDUNDANCY	-	SIMPLEX
FULL STEP SIZE ⁵	DEGREES/PULSE [RADIANS/PULSE]	0.42 [0.0073]
NO LOAD RESPONSE RATE ^{1,2,5}	PULSES/SEC	559
	DEGREES/SEC [RADIANS/SEC]	233 [4.06]
TORQUE AT LOW PULSE RATE ^{1,5}	lbf-in [N·m]	8.96 [1.01]
POWERED HOLDING TORQUE ^{1,5}	lbf-in [N·m]	12.67 [1.43]
UNPOWERED HOLDING TORQUE ⁵	lbf-in [N·m]	1.0 [0.113]
RESISTANCE ³	Ohms	94-116
INDUCTANCE ³	mH	14
MAXIMUM WINDING TEMPERATURE	°C	200
GEARBOX PARAMETERS		
GEARBOX TYPE	-	PLANETARY
GEAR REDUCTION	-	36:1
NUMBER OF STAGES	-	2
TYPICAL MECHANICAL EFFICIENCY ⁴	%	81
TYPICAL BACKLASH	DEGREES	1



NOTES:

1. ASSUMING 28 VDC BUS VOLTAGE AT 22°C, FULL STEP MODE.
2. ASSUMING 1:1 INERTIA FACTOR (DRIVEN INERTIA/ROTOR INERTIA). CONTACT HBR FOR INERTIA FACTORED RESPONSE RATE.
3. LINE TO LINE.
4. TOTAL EFFICIENCY OF BOTH STAGES.
5. AT THE ACTUATOR OUTPUT (MOTOR + GEARBOX).
6. STANDARD OUTPUT SHAFT GEOMETRY. CONTACT HONEYBEE ROBOTICS FOR FURTHER OPTIONS.
7. STEP FILE ATTACHED TO PDF.



UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN INCHES		 HONEYBEE ROBOTICS
CRITICAL DIMENSION ALL FEATURE CONTROL FRAME INTERPRET DRAWING PER ASME Y14.5-2018 LINEAR TOLERANCES: .X ±.05 SURFACE .XX ±.01 ROUGHNESS .XXX ±.005 XXXX CRITICAL ANGULAR TOLERANCES: ±0.5 DEGREES		
MICROINCHES OR BETTER		PROJECT TITLE STANDARD PRODUCT DATA SHEETS
PART NUMBER 560-101-0050		REVISION A
PART DESCRIPTION C-SIZE STEPPER, 3-PHASE, 36:1		
CAGE CODE 8DSS5	SHEET SIZE B	SHEET 1 OF 1