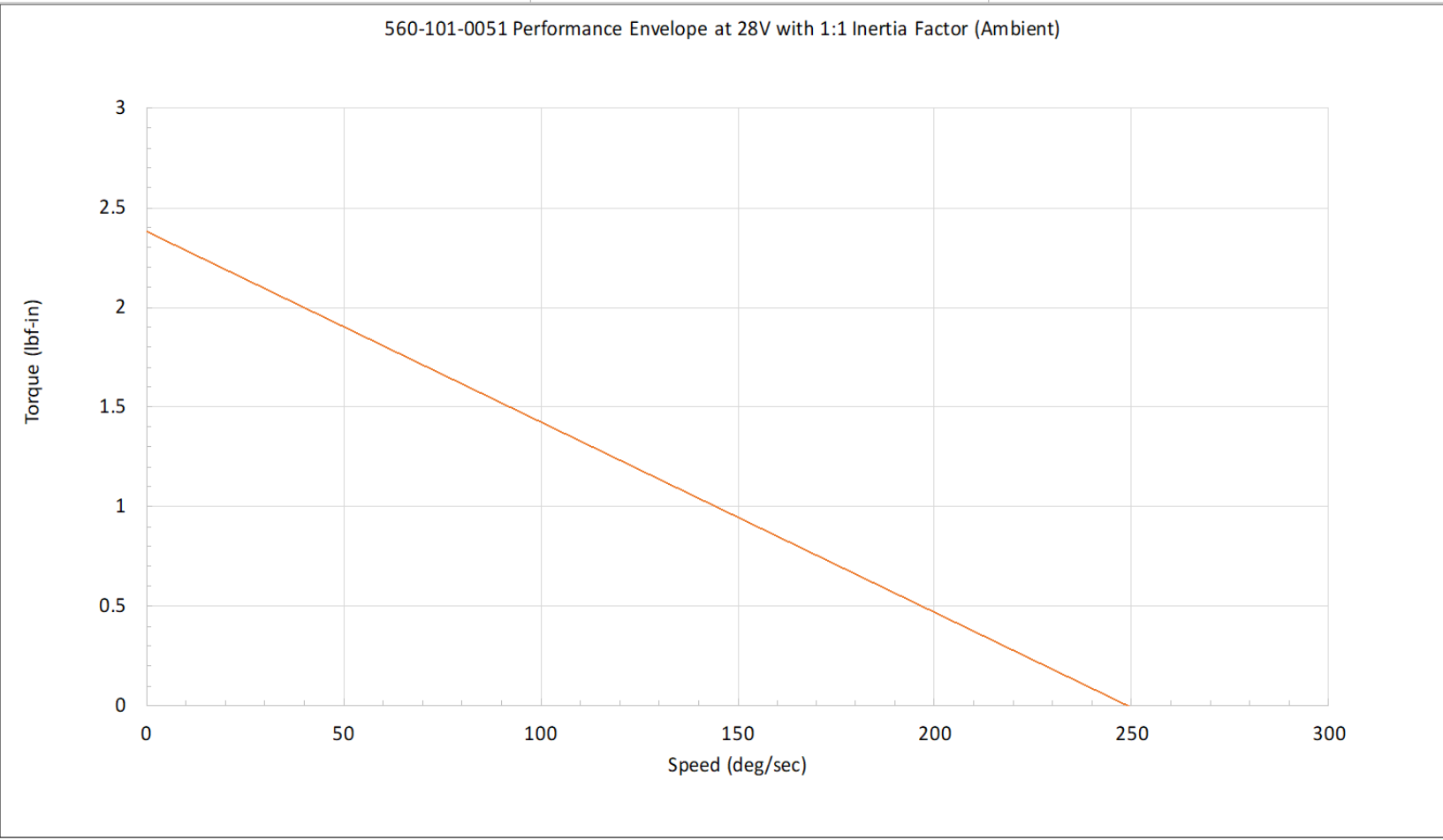
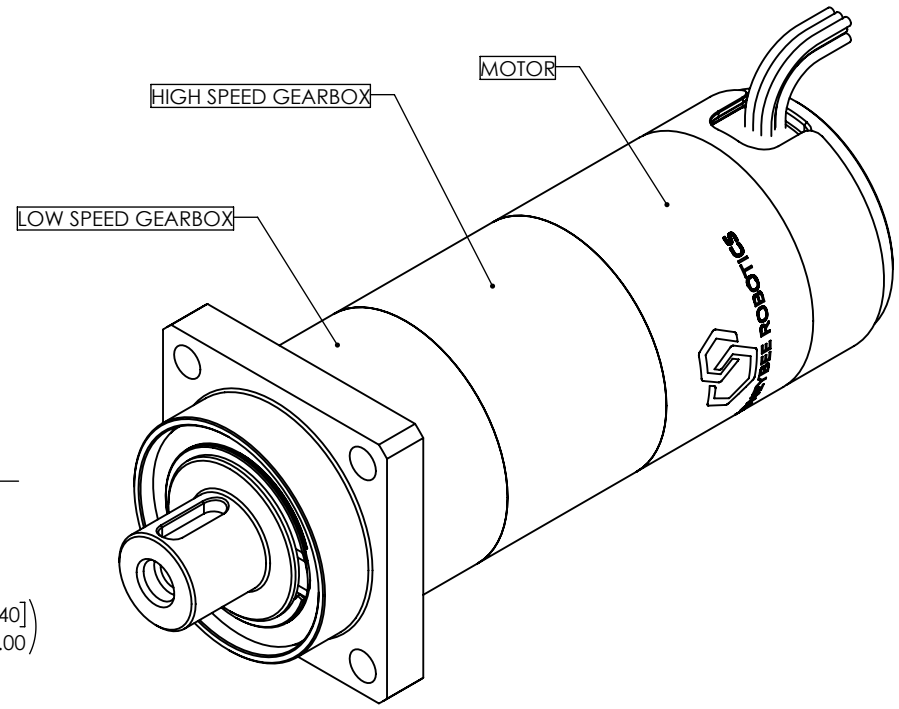
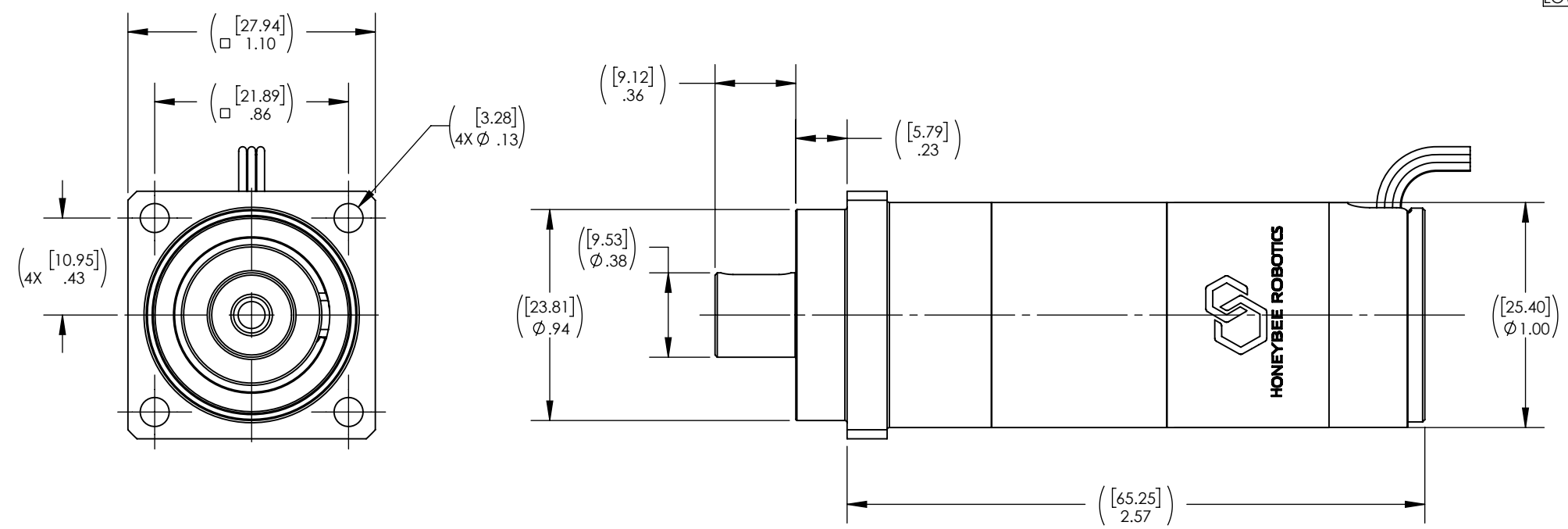


MECHANICAL PARAMETERS	UNITS	
FRAME SIZE	-	C
MASS	lbm [kg]	0.45 [0.21]
ROTOR INERTIA	oz-in-sec ² x 10 ⁻³ [g cm ²]	0.038 [2.71]
OPERATING TEMPERATURE RANGE	°C	-60 TO +200
MOTOR PARAMETERS		
DRIVE TYPE	-	2 PHASE - BIPOLAR
NUMBER OF PHASES	#	2
NUMBER OF POLE PAIRS	-	3
REDUNDANCY	-	REDUNDANT
FULL STEP SIZE ⁵	DEGREES/PULSE [RADIANS/PULSE]	0.83 [0.014]
NO LOAD RESPONSE RATE ^{1,2,5}	PULSES/SEC	299
	DEGREES/SEC [RADIANS/SEC]	250 [4.36]
TORQUE AT LOW PULSE RATE ^{1,5}	lbf-in [N·m]	2.38 [0.27]
POWERED HOLDING TORQUE ^{1,5}	lbf-in [N·m]	4.75 [0.71]
UNPOWERED HOLDING TORQUE ⁵	lbf-in [N·m]	1.2 [0.135]
RESISTANCE ³	Ohms	207-253
INDUCTANCE ³	mH	30
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 HONEYBEE ROBOTICS FOR INERTIA FACTORED RESPONSE RATE PER PHASE.
 3. PER PHASE.
 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 (XXX) CRITICAL ANGULAR TOLERANCES: ±0.5 DEGREES		
PROJECT TITLE STANDARD PRODUCT DATA SHEETS		REVISION A
PART NUMBER 560-101-0051		PART DESCRIPTION C-SIZE STEPPER, 2-PHASE REDUNDANT, 36:1
CAGE CODE 8DSS5	SHEET SIZE B	SHEET 1 OF 1