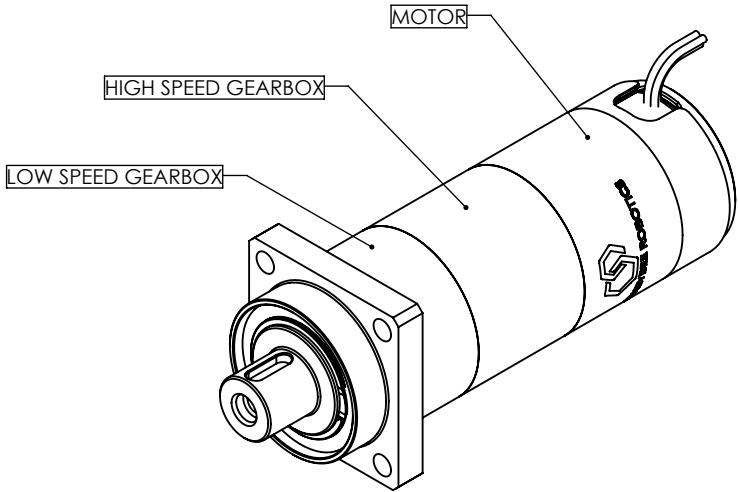
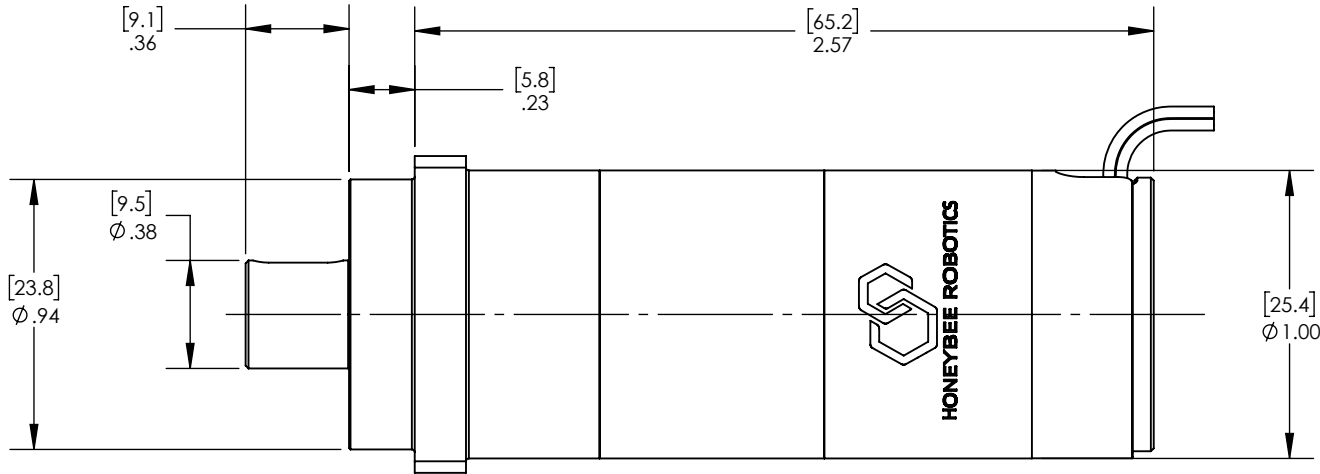
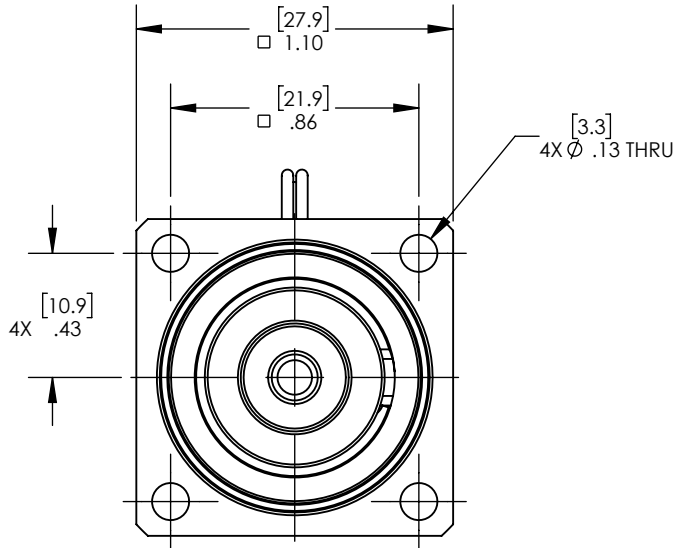


D	MECHANICAL PARAMETERS	
	FRAME SIZE	C
	OVERALL LENGTH	in [mm] 3.15 [80.1]
	NOMINAL OD	in [mm] 1.00 [25.4]
C	MASS	lbm [kg] 0.45 [0.2]
	OPERATIONAL PARAMETERS	
	DRIVE TYPE	3 PHASE - 6 STEP OR 2 LEGS TIED
	PHASES	3
	NUMBER OF POLE PAIRS	4
	FULL STEP SIZE	DEG [RAD] 0.42 [0.0073]
	NO LOAD RESPONSE RATE FULL STEP MODE	PULSES/S 559
		DEG/S [RAD/S] 233 [4.06]
	TORQUE AT LOW PULSE RATE	lbf-in [N·m] 8.96 [1.01]
	POWERED HOLDING TORQUE	lbf-in [N·m] 12.67 [1.43]
	UNPOWERED HOLDING	lbf-in [N·m] 1.0 [0.113]
	OPERATING TEMPERATURE RANGE	°C -60 TO 100
	SURVIVAL TEMPERATURE RANGE	°C -80 TO 200
	MOTOR WINDING PARAMETERS	
	ROTOR INERTIA	oz-in-s ² x10 ⁻³ [g·cm ²] 0.04 [2.7]
	PHASE RESISTANCE	Ω 94-116
	PHASE INDUCTANCE	mH 14
	GEARBOX PARAMETERS	
	GEARBOX TYPE	PLANETARY
	REDUNDANCY	SIMPLEX
	GEAR REDUCTION	36:1
	NUMBER OF STAGES	2
	TYPICAL BACKLASH	DEG 1.25

- NOTES:
1. ASSUMING 1:1 INERTIA FACTOR (REFLECTED DRIVEN INERTIA/ROTOR INERTIA). CONTACT HBR FOR INERTIA FACTORED RESPONSE RATE.
 2. PERFORMANCE AND TEMPERATURE OPERATIONAL ENVELOPES ARE DEPENDENT ON DUTY CYCLE, THERMAL BOUNDARY CONDITIONS, MOTOR POWER LOSSES AND DERATING REQUIREMENTS OF THE APPLICATION. CONTACT HONEYBEE ROBOTICS FOR EVALUATION UNDER SPECIFIC CONDITIONS.
 3. STEP FILE ATTACHED TO PDF.



UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN INCHES (CRITICAL DIMENSION) (ALL FEATURE CONTROL FRAME) INTERPRET DRAWING PER ASME Y14.5-2018 LINEAR TOLERANCES: .X ±.05 .XX ±.01 .XXX ±.005 XXXX CRITICAL ANGULAR TOLERANCES: ±0.5 DEGREES		 HONEYBEE ROBOTICS	
SURFACE ROUGHNESS 63/ MICROINCHES OR BETTER			
PROJECT TITLE STANDARD PRODUCT DATA SHEETS		REVISION B	
PART NUMBER 560-101-0050			
PART DESCRIPTION C-SIZE STEPPER, 3-PHASE, 36:1			
CAGE CODE 8DSS5		SHEET SIZE B	SHEET 1 OF 1