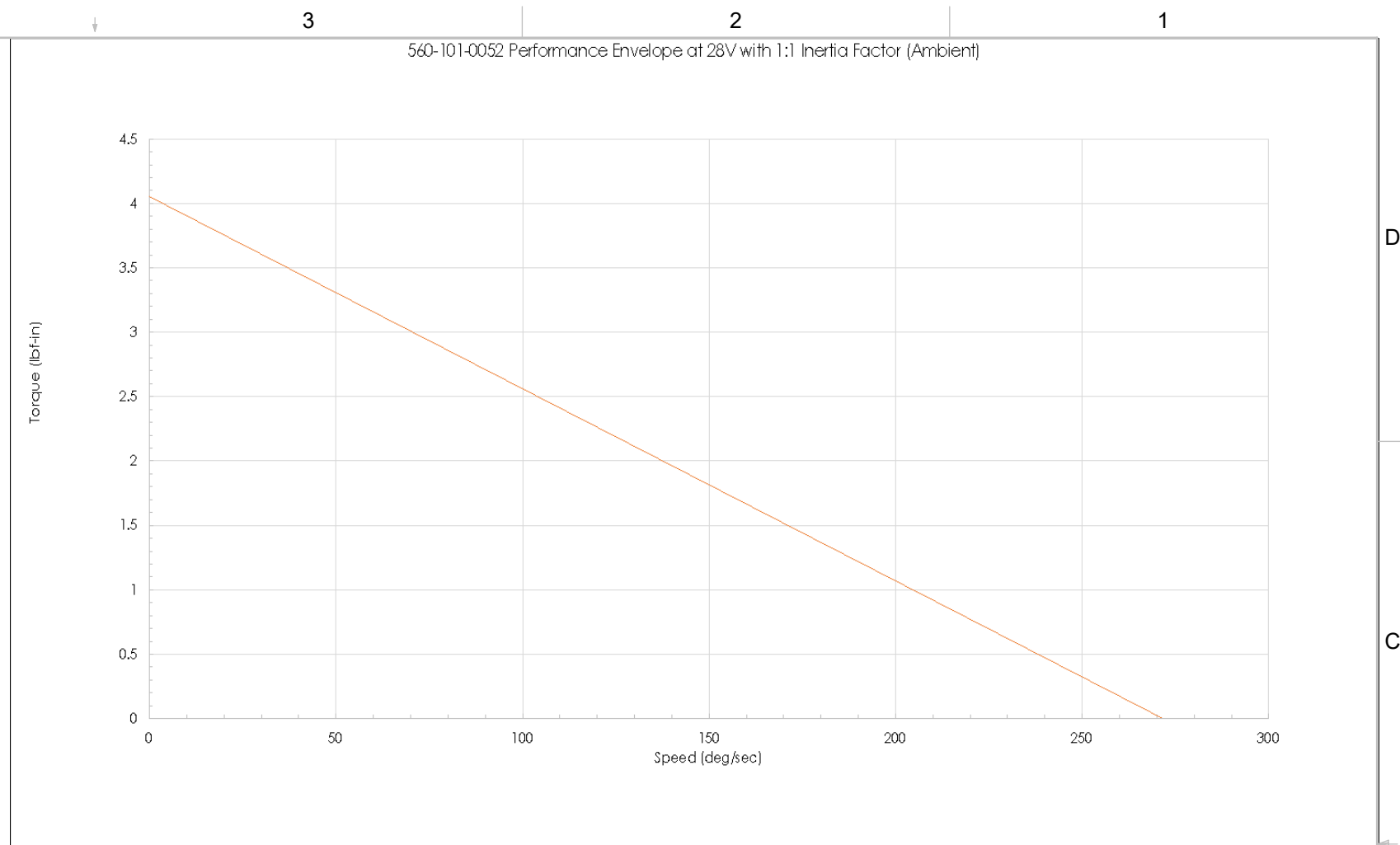
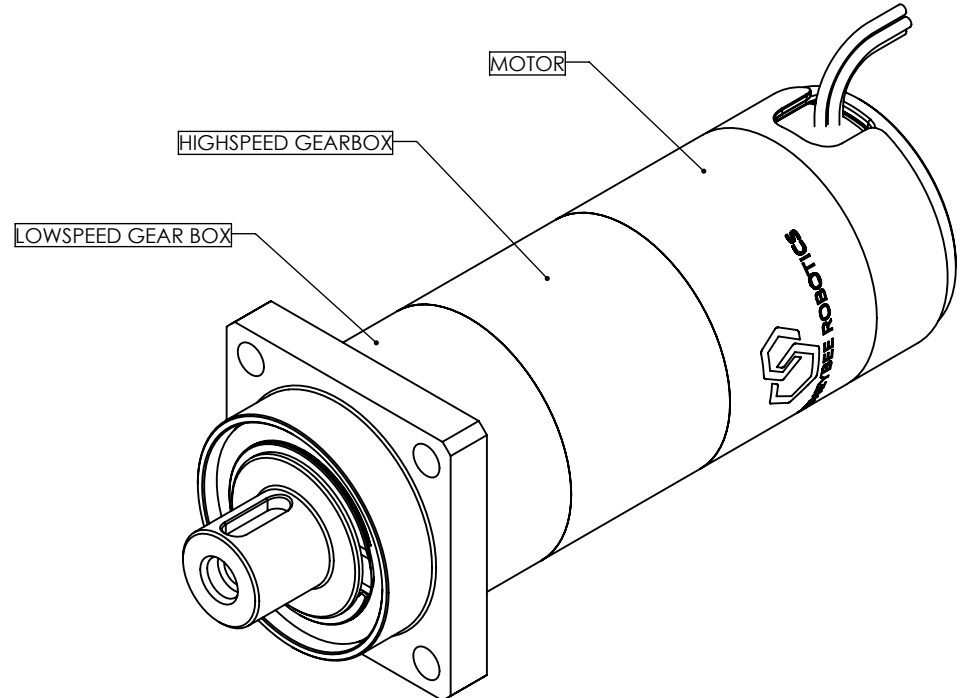
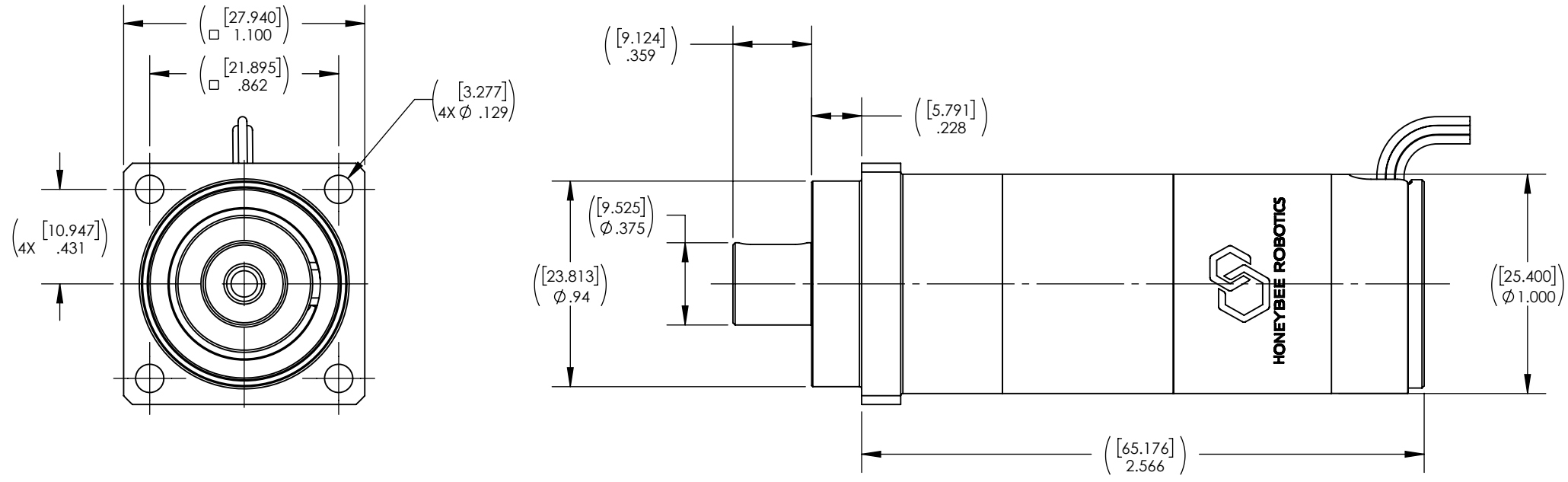


| MECHANICAL PARAMETERS | UNITS | |
|--|--|-------------------|
| FRAME SIZE | - | C |
| MASS | lbf [kg] | 0.45 [0.21] |
| ROTOR INERTIA | oz-in-sec ² x 10 ⁻³ [g-cm ²] | 0.038 [2.71] |
| OPERATING TEMPERATURE RANGE | °C | -60 TO +200 |
| MOTOR PARAMETERS | | |
| DRIVE TYPE | - | 2 PHASE - BIPOLAR |
| PHASES | # | 2 |
| REDUNDANCY | - | SIMPLEX |
| FULL STEP SIZE ⁵ | DEGREES/SEC [RADIANS/SEC] | 0.83 [0.014] |
| NO LOAD RESPONSE RATE ^{1,2,5} | PULSES/SEC | 326 |
| | DEGREES/SEC [RADIANS/SEC] | 271 [4.72] |
| TORQUE AT LOW PULSE RATE ^{1,5} | lbf-in [N-m] | 4.05 [0.45] |
| POWERED HOLDING TORQUE ^{1,5} | lbf-in [N-m] | 5.73 [0.65] |
| UNPOWERED HOLDING ⁵ | lbf-in [N-m] | 1.2 [0.135] |
| RESISTANCE ³ | Ohms | 144 - 176 |
| INDUCTANCE ³ | mH | 42 |
| MAXIMUM WINDING TEMPERATURE | °C | 200 |
| GEARBOX PARAMETERS | | |
| GEARBOX TYPE | - | PLANETARY |
| GEAR REDUCTION | - | 36:1 |
| NUMBER OF STAGES | - | 2 |
| TYPICAL MECHANICAL EFFICIENCY ^{1,4} | % | 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 PER PHASE.
 3. PER PHASE.
 4. COMBINED 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 <small>(CRITICAL DIMENSION)</small> | | HONEYBEE ROBOTICS | PROJECT TITLE STANDARD PRODUCT DATA SHEETS |
| <small>(ALL FEATURE CONTROL FRAME)</small> INTERPRET DRAWING PER ASME Y14.5-2018 LINEAR TOLERANCES: .X ±.05 SURFACE .XX ±.01 ROUGHNESS .XXX ±.005 (XXX) CRITICAL ANGULAR TOLERANCES: ±0.5 DEGREES | | | |
| PART NUMBER 560-101-0052 | | PART DESCRIPTION C-SIZE STEPPER, 2-PHASE, 36:1 | |
| CAGE CODE 8DSS5 | SHEET SIZE B | SHEET 1 OF 1 | |