


| TECHNICAL DETAILS (SI UNITS): | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| GEAR RATIO | 4:1 | 5:1 | 7:1 | 10:1 | 15:1 | 25:1 | 60:1 | 100:1 |
| FRAME SIZE | 40 MM | 40 MM | 40 MM | 40 MM | 40 MM | 40 MM | 40 MM | 40 MM |
| OUTPUT SHAFT DIAMETER | 10 MM | 10 MM | 10 MM | 10 MM | 10 MM | 10 MM | 10 MM | 10 MM |
| INPUT SPEED | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM |
| WEIGHT (KG) | 0.35 | 0.35 | 0.35 | 0.35 | 0.65 | 0.65 | 0.65 | 0.65 |
| IP RATING | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 |
| TORQUE – NOM UNIDIRECTIONAL | 15 N·M | 14 N·M | 8.5 N·M | 5 N·M | 18 N·M | 18 N·M | 20 N·M | 20 N·M |
| TORQUE – NOM BIDIRECTIONAL | 9 N·M | 9 N·M | 8.5 N·M | 5 N·M | 9 N·M | 9 N·M | 9 N·M | 9 N·M |
| TORQUE – MAX OUTPUT | 24 N·M | 22 N·M | 13.5 N·M | 8 N·M | 29 N·M | 29 N·M | 32 N·M | 32 N·M |
| MOMENT OF INERTIA (g-cm ²) | 21 | 19 | 15 | 14 | 25 | 18 | 25 | 18 |
| WORKING TEMPERATURE (°C) | -25 TO +90 | -25 TO +90 | -25 TO +90 | -25 TO +90 | -25 TO +90 | -25 TO +90 | -25 TO +90 | -25 TO +90 |
| LENGTH | 93.5 MM | 93.5 MM | 93.5 MM | 93.5 MM | 106.5 MM | 106.5 MM | 119 MM | 119 MM |
| BACKLASH (arcmin) | < 15 | < 15 | < 15 | < 15 | < 19 | < 19 | < 22 | < 22 |
| TORSIONAL STIFFNESS (Nm/arcmin) | 1 | 1 | 0.9 | 0.7 | 1 | 1 | 1 | 1 |
| EFFICIENCY (%) | 98 | 98 | 97 | 95 | 96 | 95 | 92 | 90 |

| TECHNICAL DETAILS (IMPERIAL UNITS): | | | | | | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| GEAR RATIO | 4:1 | 5:1 | 7:1 | 10:1 | 15:1 | 25:1 | 60:1 | 100:1 |
| FRAME SIZE | 1.57 in | 1.57 in | 1.57 in | 1.57 in | 1.57 in | 1.57 in | 1.57 in | 1.57 in |
| OUTPUT SHAFT DIAMETER | 0.39 in | 0.39 in | 0.39 in | 0.39 in | 0.39 in | 0.39 in | 0.39 in | 0.39 in |
| INPUT SPEED | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM | 5000 RPM |
| WEIGHT (LBS) | 0.77 | 0.77 | 0.77 | 0.77 | 1.43 | 1.43 | 1.43 | 1.43 |
| IP RATING | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 |
| TORQUE – NOM UNIDIRECTIONAL | 132.7 in·lbs | 123.9 in·lbs | 75.2 in·lbs | 44.3 in·lbs | 159.3 in·lbs | 159.3 in·lbs | 177 in·lbs | 177 in·lbs |
| TORQUE – NOM BIDIRECTIONAL | 79.7 in·lbs | 79.7 in·lbs | 75.2 in·lbs | 44.3 in·lbs | 79.7 in·lbs | 79.7 in·lbs | 79.7 in·lbs | 79.7 in·lbs |
| TORQUE – MAX OUTPUT | 212.4 in·lbs | 194.7 in·lbs | 119.5 in·lbs | 70.81 in·lbs | 256.7 in·lbs | 256.7 in·lbs | 283.2 in·lbs | 283.2 in·lbs |
| MOMENT OF INERTIA (oz-in-sec ²) | 0.000297 | 0.000269 | 0.000212 | 0.000198 | 0.000354 | 0.000255 | 0.000354 | 0.000255 |
| WORKING TEMPERATURE (°F) | -13 TO 194 | -13 TO 194 | -13 TO 194 | -13 TO 194 | -13 TO 194 | -13 TO 194 | -13 TO 194 | -13 TO 194 |
| LENGTH | 3.68 in | 3.68 in | 3.68 in | 3.68 in | 4.19 in | 4.19 in | 4.68 in | 4.68 in |
| BACKLASH (arcmin) | < 15 | < 15 | < 15 | < 15 | < 19 | < 19 | < 22 | < 22 |
| TORSIONAL STIFFNESS (inlb/arcmin) | 8.9 | 8.9 | 7.9 | 6.2 | 8.9 | 8.9 | 8.9 | 8.9 |
| EFFICIENCY (%) | 98 | 98 | 97 | 95 | 96 | 95 | 92 | 90 |

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| APPROVALS | DATE |  APPLIED MOTION PRODUCTS, INC. |
| DRAWN N.DEY | 3/14/18 | |
| CHECKED R.JONEZ | 3/16/18 | |
| APPROVED J.KORDIK | 3/16/18 | |
| COMPUTER DATA BASE DRAWING | | OUTLINE, GEAR HEAD, 40MM B DWG NO. 40PEXXX-SSAE1 REV C |
| | | SCALE: NONE SHEET 2 OF 2 |