Disc Magnet Stepper Motor:

|  |  |  |
| --- | --- | --- |
| Parameter/Model(P010 104) | P010 064 003 21 | P010 064 020 21 |
| Diameter (mm) | 10 | 10 |
| Holding Torque Typical(mNm) | 1.8 | 1.8 |
| Detent Torque Max (mNm) | 0.90 | 0.90 |
| Linear Travel Accuracy | 15 | 15 |
| Steps Per Revolution | 24 | 24 |
| Back EMF Amplitude(V/ksteps/s) | 0.9 | 2.2 |
| Nominal Current, 1 Phase ON (A) | 0.52 | 0.21 |
| Nominal Current, 2 Phase ON(A) | 0.37 | 0.15 |

|  |  |  |
| --- | --- | --- |
| Parameter/Model(PH010 064) | PH010 064 003 02 | PH010 064 010 02 |
| Diameter (mm) | 10 | 10 |
| Holding Torque Typical(mNm) | 2.4 | 2.4 |
| Detent Torque Max (mNm) | 1.10 | 1.10 |
| Linear Travel Accuracy | 15 | 15 |
| Steps Per Revolution | 24 | 24 |
| Back EMF Amplitude(V/ksteps/s) | 1.2 | 2.3 |
| Nominal Current, 1 Phase ON (A) | 0.52 | 0.28 |
| Nominal Current, 2 Phase ON(A) | 0.37 | 0.20 |

Recommended Stepper with Less Lead Time:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter/Model(P110 064) | P110 064 2.5 08 | P110 064 015 08 | P110 064 068 08 |
| Diameter (mm) | 16 | 16 | 16 |
| Holding Torque Typical(mNm) | 7 | 7 | 7 |
| Detent Torque Max (mNm) | 1 | 1 | 1 |
| Linear Travel Accuracy | 15 | 15 | 15 |
| Steps Per Revolution | 24 | 24 | 24 |
| Back EMF Amplitude(V/ksteps/s) | 2 | 5.2 | 10.8 |
| Nominal Current, 1 Phase ON (A) | 0.90 | 0.35 | 0.17 |
| Nominal Current, 2 Phase ON(A) | 0.63 | 0.25 | 0.12 |

Brushed DC Motor:

|  |  |
| --- | --- |
| Parameter/Model (08G S61) | 08G S61-105C.3 |
| Diameter(mm) | 8 |
| No load speed(rpm) | 11,000 |
| No-load current(mA) | 3 |
| Output Power(W) | 0.5 |
| Stall Torque(mNm) | 0.64 |
| Torque upto (mNm) | 0.66 |
| Torque Constant (mNm/A) | 5.1 |

|  |  |
| --- | --- |
| Parameter/Model (10NS61 Athlonix) | 10NS61-104C.5 |
| Diameter(mm) | 10 |
| No load speed(rpm) | 10,700 |
| No-load current(mA) | 3.6 |
| Output Power(W) | 0.7 |
| Stall Torque(mNm) | 0.71 |
| Torque upto (mNm) | 0.85 |
| Torque Constant (mNm/A) | 7.7 |

Consolidation:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter/Model(PH010 064) | PH010 064 003 02 | PH010 064 010 02 | P010 064 003 21 | P010 064 020 21 | P110 064 2.5 08 | P110 064 015 08 | P110 064 068 08 |
| Diameter (mm) | 10 | 10 | 10 | 10 | 16 | 16 | 16 |
| Holding Torque Typical(mNm) | 2.4 | 2.4 | 1.8 | 1.8 | 7 | 7 | 7 |
| Detent Torque Max (mNm) | 1.10 | 1.10 | 0.90 | 0.90 | 1 | 1 | 1 |
| Linear Travel Accuracy | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Steps Per Revolution | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Back EMF Amplitude(V/ksteps/s) | 1.2 | 2.3 | 0.9 | 2.2 | 2 | 5.2 | 10.8 |
| Nominal Current, 1 Phase ON (A) | 0.52 | 0.28 | 0.52 | 0.21 | 0.90 | 0.35 | 0.17 |
| Nominal Current, 2 Phase ON(A) | 0.37 | 0.20 | 0.37 | 0.15 | 0.63 | 0.25 | 0.12 |