



Hall Details

| | |
|-----------------------------------|-------------------------------------|
| Induction magnet polarity: | NS 34 poles |
| Hall switch type | bipolar AB phase |
| Hall supply voltage | DC 3.3v / 5.0v |
| Function | AB signal output, with pull shaping |
| Output signal type: | square wave AB phase |
| Base pulse number | 17 PPR |
| Hall-coded interface type | xh2.54-4pin |
| Motor power supply interface type | vh3.96-2pin |

Specifications

Special note: Due to the large power of the motor, high current, matching power supply must be more than 10A

If you use lithium batteries, be sure to use a power type battery preferably 25C

| Voltage: DC12.0V max power 35W | | | | | | | | | | | |
|---------------------------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|
| Reduction ratio | 1:3.7 | 1:5 | 1:13 | 1:25 | 1:49 | 1:67 | 1:92 | 1:125 | 1:246 | 1:336 | 1:625 |
| number of stages | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| No-load current (mA) | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 | ≤500 |
| No-load speed (rpm) | 1100 | 820 | 315 | 165 | 83 | 60 | 45 | 32 | 16.5 | 12 | 6.5 |
| Rated torque(Kg.cm) | 5.5 | 7.5 | 20 | 20 | 30 | 30 | 40 | 40 | 70 | 70 | 70 |
| Rated torque(N.m) | 0.53 | 0.73 | 2 | 2 | 3 | 3 | 4 | 4 | 7 | 7 | 7 |
| Rated-load speed (rpm) | 550 | 410 | 150 | 110 | 60 | 50 | 37 | 27 | 15 | 11 | 5.8 |
| Rated-load current (A) | ≤6 | ≤6 | ≤6 | ≤4 | ≤3.5 | ≤2.8 | ≤2.5 | ≤2.0 | ≤2.0 | ≤2.0 | ≤1.5 |
| Stall current (A) | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Gearbox Length (L) | 33.5 | 33.5 | 43.5 | 43.5 | 53.5 | 53.5 | 53.5 | 53.5 | 63.5 | 63.5 | 63.5 |
| Hall signal number after deceleration | 55.5 | 75 | 195 | 375 | 735 | 1005 | 1380 | 1875 | 3690 | 5040 | 9375 |

| Voltage: DC24.0V max power 150W | | | | | | | | | | | |
|---------------------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|
| Reduction ratio | 1:3.7 | 1:5 | 1:13 | 1:25 | 1:49 | 1:67 | 1:92 | 1:125 | 1:246 | 1:336 | 1:625 |
| number of stages | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| No-load current (mA) | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 | ≤700 |
| No-load speed (rpm) | 2200 | 1640 | 630 | 330 | 165 | 120 | 90 | 64 | 33 | 24 | 13 |
| Rated torque(Kg.cm) | 11 | 15 | 30 | 30 | 40 | 50 | 60 | 60 | 90 | 90 | 90 |
| Rated torque(N.m) | 1.2 | 1.3 | 3 | 3 | 4 | 5 | 6 | 6 | 9 | 9 | 9 |
| Rated-load speed (rpm) | 1100 | 820 | 300 | 250 | 130 | 105 | 80 | 55 | 30 | 22 | 12 |
| Rated-load current (A) | ≤13 | ≤13 | ≤13 | ≤9 | ≤7 | ≤6 | ≤5 | ≤4 | ≤4 | ≤4 | ≤9 |
| Stall current (A) | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Gearbox Length (L) | 33.5 | 33.5 | 43.5 | 43.5 | 53.5 | 53.5 | 53.5 | 53.5 | 63.5 | 63.5 | 63.5 |