

**22PA
20BYG**

**步进行星齿轮减速电机
PLANET GEAR STEPPER MOTOR**



● 齿轮箱参数(Gear Box Data):

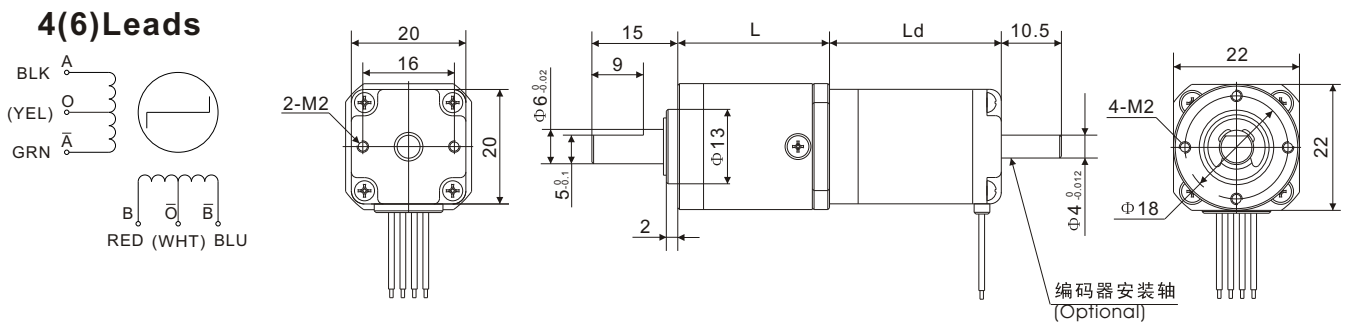
| | | | | | | | | | |
|---|------|----------------|------|----|------------------|------|----|-----------------|---------------------|
| 减速比/Reduction Ratio (1:X) | 4 | 5 | 16 | 19 | 22 | 64 | 76 | 90 | 107 |
| 精确减速比/Exact Reduction Ratio (1:X) | 4 | $\frac{19}{4}$ | 16 | 19 | $\frac{361}{16}$ | 64 | 76 | $\frac{361}{4}$ | $\frac{20577}{192}$ |
| 传动级数/Number of Gear Train (#) | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 最大允许力距/Max. Permissible Torque(kg.cm) | 3 | | 6 | | | 9 | | | |
| 瞬间允许力距/Moment Permissible Torque(kg.cm) | 9 | | 18 | | | 27 | | | |
| 齿轮箱长度/ Gear Box Length {L (mm)} | 21.5 | | 26.5 | | | 31.5 | | | |

● 马达参数(Motor specifications):

| 电机型号 | 步距角 | 机身长度 | 相电压 | 相电流 | 相电阻 | 相电感 | 静力矩 | 引线 |
|------------------|------------|-------------|---------------|---------------|------------------|------------------|----------------|-----------|
| Motor Model # | Step Angle | Length (Ld) | Rated Voltage | Rated Current | Phase Resistance | Phase Inductance | Holding Torque | Lead Wire |
| | (°) | (mm) | (V) | (A) | (Ω) | (mH) | (g.cm) | (#) |
| 20BYG28-020-4A/B | 1.8 | 28 | 4.8 | 0.2 | 24 | 8.0 | 160 | 4 |
| 20BYG30-050-6A/B | 1.8 | 30 | 5.75 | 0.5 | 11.5 | 1.7 | 180 | 6 |
| 20BYG33-060-4A/B | 1.8 | 33 | 3.9 | 0.6 | 6.5 | 5.5 | 200 | 4 |
| 20BYG38-060-4A/B | 1.8 | 38 | 10 | 0.6 | 10 | 1.2 | 400 | 4 |

说明: A:单出轴; B:双出轴。
Note: A: single shaft, B: double shaft

● 外形和安装尺寸(Dimensions):



● 型号定义(Product Code):

| | | | | | | | | |
|------------|-----------|------------|-------------|--------------|-------------|--------------|------------|----------------------|
| 机座号 | 行星齿轮 | 减速比 | 马达机座 | 混合式 | 机身长度 | 相电流 | 引线数 | 出轴 |
| 22 | PA | 16G | - 20 | BYG | 38 | - 060 | - 4 | B |
| Frame size | Planetary | Gear Ratio | Motor size | Hybrid Motor | Body Length | Hybrid Motor | #leads | Shaft |
| 22=Φ22 | | 16=16:1 | 20=20X20 | | 38=38mm | 060=0.60A | 4=4leads | A=single B=double |