

# SERIES OF HYBRID STEPPING MOTOR

## 混合式步进电机 130BYG250 130BYG350 130BYG550 系列



### 基本参数 (General Specifications):

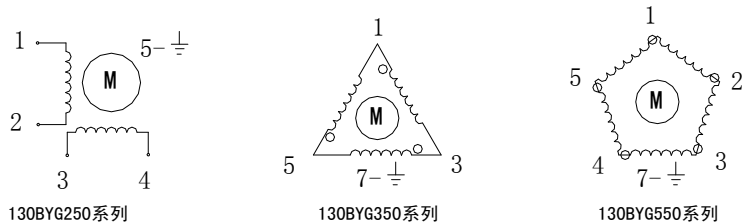
步距角 (Step Angle) ----- $1.8^\circ / 0.9^\circ$  ,  $1.2^\circ / 0.6^\circ$  ,  $0.72^\circ / 0.36^\circ$  (full step/half step)  
 步距角精度 (Step Accuracy) ----- $\pm 5\%$  (full step, no load)  
 温升 (Temperature Rise) ----- $80^\circ\text{C}$  Max (rated current, 2 phases on)  
 环境温度 (Ambient Temperature Range) ----- $-20^\circ\text{C} \sim +50^\circ\text{C}$   
 绝缘电阻 (Insulation Resistance) ----- $100\Omega$  Min. 500VDC  
 绝缘介电强度 (Dielectric Strength) -----1000VAC 50Hz 1mA 1 Minute  
 绝缘等级 (Insulation Class) -----F 级 (155 级)  
 轴向变形 (Shaft Axial Play) -----0.08mm Max (60N Load)  
 径向跳动 (Shaft Radial Play) -----0.02mm Max (300N Load)  
 最大径向力 (Max. radial force) -----220N (20mm from the flange)  
 最大轴向力 (Max. axial force) -----60N  
 旋转方向 (Rotation) -----CW (See From Front Flange)

### 主要参数 (Electrical Specifications):

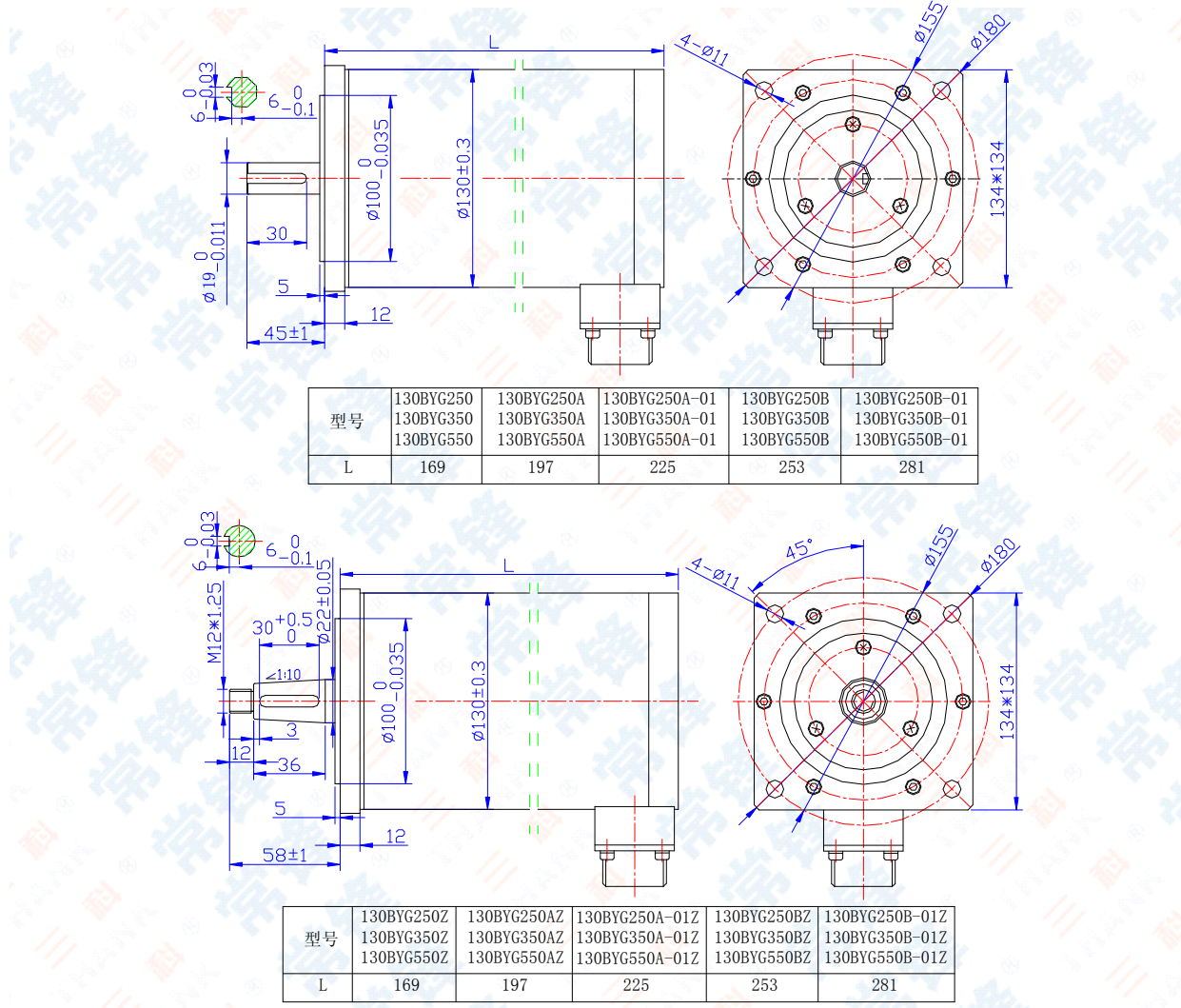
型号 Model	相数 Phases	保持转矩 Holding Torque (N.m)	电压 Rated Voltage (V)	电流 Rated Current (A)	电阻 Phase Resistance ( $\Omega$ )	电感 Phase Inductance (mH)	转动惯量 Rotor Inertia ( $\text{kg}\cdot\text{cm}^2$ )	引出 线数 Lead Wire	定位力矩 Detent Torque (N.m)	重量 Motor Weight (kg)
130BYG250	2	22	80-325	6	0.55	7.5	23	4	0.8	12.7
130BYG250A	2	27	80-325	6	0.65	9.25	28.75	4	1.0	15
130BYG250A-01	2	35	80-325	6	0.75	10.7	35	4	1.2	17
130BYG250B	2	40	80-325	7	0.72	9.7	40.25	4	1.4	19
130BYG250B-01	2	45	80-325	7	0.80	10.7	45.5	4	1.6	21
130BYG350	3	22	80-325	5	0.50	6.68	23	3	0.6	12.7
130BYG350A	3	30	80-325	5	0.62	8.35	28.75	3	0.7	15
130BYG350A-01	3	36	80-325	5	0.75	9.23	35	3	0.8	17
130BYG350B	3	42	80-325	6	0.70	9.62	40.25	3	0.9	19
130BYG350B-01	3	50	80-325	6	0.93	11	45.5	3	1.0	21
130BYG550	5	22	80-150	5	0.4	5.0	23	5	0.6	12.7
130BYG550A	5	27	80-150	5	0.5	6.25	28.75	5	0.7	15
130BYG550A-01	5	35	80-150	5	0.6	7.5	35	5	0.8	17
130BYG550B	5	40	80-150	8	0.45	6.8	40.25	5	0.9	19
130BYG550B-01	5	45	80-150	8	0.5	7.8	45.5	5	1.0	21
130BYG250Z	2	22	80-325	6	0.55	7.5	23	4	0.8	12.7
130BYG250AZ	2	27	80-325	6	0.65	9.25	28.75	4	1.0	15
130BYG250A-01Z	2	35	80-325	6	0.75	10.7	35	4	1.2	17
130BYG250BZ	2	40	80-325	7	0.72	9.7	40.25	4	1.4	19
130BYG250B-01Z	2	45	80-325	7	0.80	10.7	45.5	4	1.6	21
130BYG350Z	3	22	80-325	5	0.50	6.68	23	3	0.6	12.7
130BYG350AZ	3	30	80-325	5	0.62	8.35	28.75	3	0.7	15
130BYG350A-01Z	3	36	80-325	5	0.75	9.23	35	3	0.8	17
130BYG350BZ	3	42	80-325	6	0.70	9.62	40.25	3	0.9	19
130BYG350B-01Z	3	50	80-325	6	0.93	11	45.5	3	1.0	21
130BYG550Z	5	22	80-150	5	0.4	5.0	23	5	0.6	12.7
130BYG550AZ	5	27	80-150	5	0.5	6.25	28.75	5	0.7	15
130BYG550A-01Z	5	35	80-150	5	0.6	7.5	35	5	0.8	17
130BYG550BZ	5	40	80-150	8	0.45	6.8	40.25	5	0.9	19
130BYG550B-01Z	5	45	80-150	8	0.5	7.8	45.5	5	1.0	21

\*以上产品为基本型，可根据用户要求订做派生：轴伸、电流、高低温、密封等

### 接线图 (Wiring Diagram):



### 外形图 (Dimensions):



### 运行矩频特性 (Pull-out Torque-pulse curve):

