

## Planetary Gear Stepping Motor

### 行星齿轮减速器 Planetary Gearhead

内齿圈材料 Housing material	金属 metal 28mm OD
Permissible load range	1,2Nm – 4,0Nm
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load ( 10mm from flange )	≤35N
最大允许轴向负载 Max. shaft axial load	≤25N
径向间隙 (测量点尽量接近法兰) Radial play of shaft ( near to flange )	≤0.07 mm
轴向间隙 Axial play of shaft	≤0.3 mm
背隙 (无负载时) Backlash at no-load	1.5°



### MST11 混合式步进电机性能 MST11 Hybrid Stepping Motor Specifications

Model No.	Motor flange	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 # of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
MST110A293L6AA.95	28/1.1	2.66	0.95	2.8	0.8	430	6	9x10 <sup>-7</sup>	31.5	31.5	≤1:369
MST110A293L3AA.67	28/1.1	3.8	0.67	5.6	3.4	600	4				≤1:264
MST111A293L6AA.95	28/1.1	3.4	0.95	3.4	1.2	750	6	12x10 <sup>-7</sup>	44.5	44.5	≤1:189
MST111A293L3AA.67	28/1.1	4.56	0.67	6.8	4.9	950	4				≤1:189
MST114A293L6AA.95	28/1.1	4.4	0.95	4.6	1.8	900	6	18x10 <sup>-7</sup>	50.5	50.5	≤1:189
MST114A293L3AA.67	28/1.1	6.2	0.67	9.2	7.2	1200	4				≤1:100

xx29xx: Standard with gear. xx30xx: Double shaft ø5mm

### Planetary Gearbox Specifications. Add eg A01 to the partnumber. MST110A293L6AA.95A01

减速比 Reduction ratio	3.71	5.18	014	019	027	051	071	100	139	189	264	369
减速级数 Number of gear trains	1		2			3			4			
减速器长度(L2) Length(L2) mm	31.0		40.1			49.0			57.9			
最大额定转矩 Max. rated torque kg.cm	12		20			32			40			
瞬间允许转矩 Short time permissible torque kg.cm	36		60			96			120			
效率 Efficiency %	90%		81%			73%			66%			
重量 Weight g	60		85			95			110			

### 外形和安装尺寸 Dimensions

