混合式步进行星齿轮减速电机（内齿圈材质：金属和粉末金属）
Planetary Gear Stepping Motor (Ring Gear Material: Metal and Powder Metal)

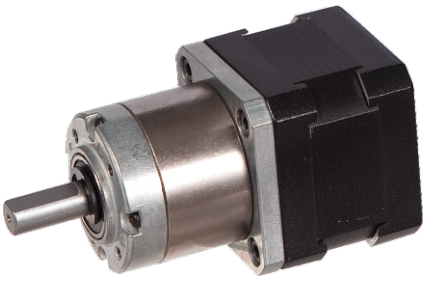
36JXES60K/42STH

Φ36行星减速器，允许转矩范围：1.8N.m~6.0N.m
36mm Planetary Gearbox
Permissible Load Range: 1.8N.m~6.0N.m

可在两种材料的内齿圈中进行选择：粉末金属（型号36JXF60K），金属（型号36JXE60K）
Ring gear can be selected within the two materials：Powder metal（Type:36JXF60K），Metal（Type:36JXE60K）

● 行星齿轮减速器 Planetary Gearbox

内齿圈材料 Ring material	E型:金属 Metal F型:金属粉末 Powder metal
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)	≤50N
最大允许轴向负载 Max. shaft axial load	≤30N
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°



● 42STH混合式步进电机性能 42STH Hybrid Stepping Motor Specifications

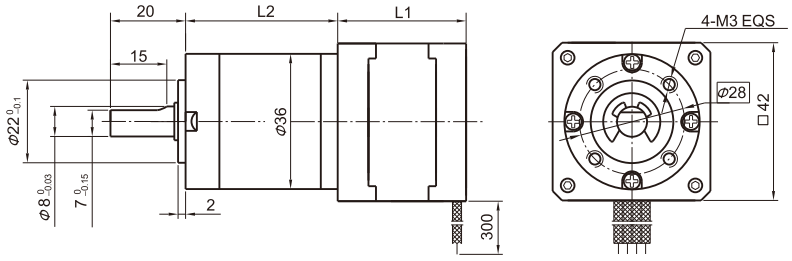
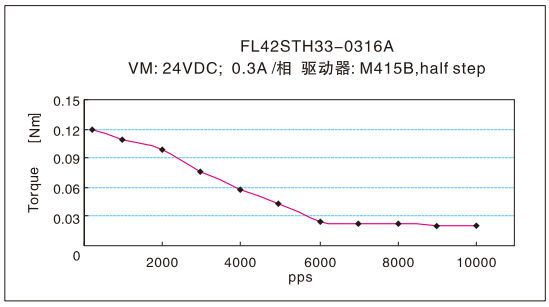
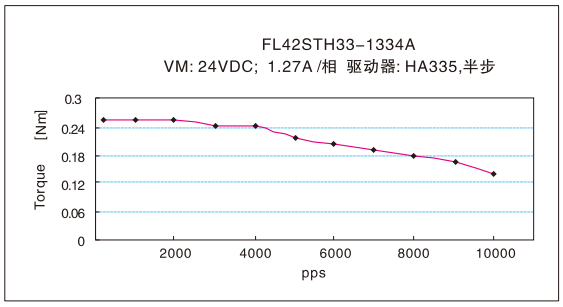
Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 # of Leads	转动惯量 Rotor Inertia	重 量 Weight	长度L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		g-m²	kg	mm	
42STH33-0316A	12	0.31	38.5	21	1.6	6	35	0.22	34	≤1:100
42STH33-1334A	2.8	1.33	2.1	2.5	2.2	4	35	0.22	34	≤1:71

常规产品是单出轴，可以订货双出轴，型号的后缀号A改为B。 A Single Shaft, B Double shaft

● 36JXES60K行星减速器性能 36JXES60K Planetary Gearbox Specifications

减 速 比 Reduction ratio	3.71	5.18	14	19	27	51	71	100	139
减速级数 Number of gear trains	1		2			3			
减速器长度 (L2) Length(L2) mm	27.0		34.1			41.0			
最大额定转矩 Max. rated torque kg.cm	6		24			50			
瞬间允许转矩 Short time permissible torque kg.cm	20		70			150			
效 率 Efficiency %	90%		81%			73%			
重 量 Weight g	195		210			290			

● 外形和安装尺寸 Dimensions



● 矩频曲线 Frequency-torque Characteristics