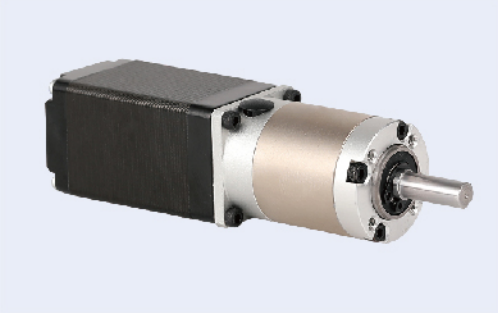
28mm 1.8°精密行星减速步进电机

NEMA 11 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR



常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metall
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 10kgf
● 轴向负荷 Shaft axial load	≤ 5kgf
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
28HS30-1004A	30	1.0	2.9	1.9	0.07	8.5	4	0.09
28HSA33-0804A	33	0.8	5.3	3.3	0.08	9.3	4	0.1
28HS40-0704A	40	0.7	6.5	6.0	0.12	13.5	4	0.12
28HSA45-0804A	45	0.8	7.8	5.4	0.13	15	4	0.15
28HSA48-0804A	48	0.8	8.6	6.7	0.13	17.2	4	0.20
28HS50-0674A	50	0.67	8.4	5.6	0.12	18.9	4	0.21

HPR28行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级				2级								3级						
减速比 Reduction ratio		4	5	7	10	16	20	25	28	35	40	50	70	64	80	100	125	140	175	200
减速机长度（L1）Reducer length（L1）	mm	33				41.5								50						
额定输出扭矩 Rated output torque	N.m	2	2	2	1	4	4	4	4	4	3	3	3	6	6	6	6	6	6	6
瞬时转矩 Torque moment	N.m	2倍于额定允许负载																		
传动效率 Transmission efficiency	%	96				94								90						
噪音 Noise	db	≤55																		
重量 Weight	g	96				130								160						

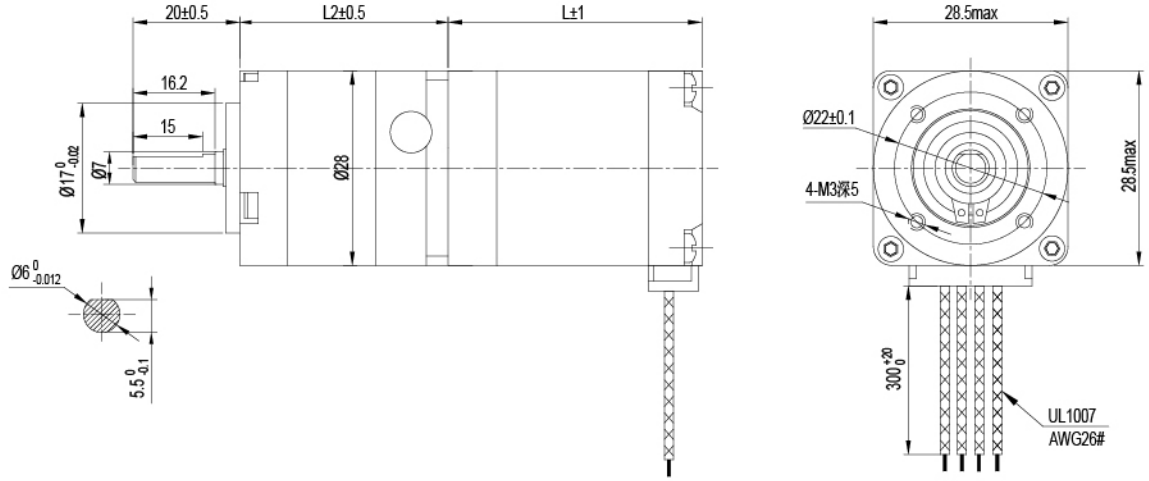
我们可以根据客户要求定制电机的电气参数、电机输出轴尺寸等形状，也可以增配带轮、偏心减速箱和行星减速箱、编码器等，查看更多产品信息请浏览公司网站：www.zz-motor.com
We can customize the motor electrical parameters, output shaft size and other shapes according to customer requirements. We can also add planetary reducers, encoders, etc. For more product information, please visit our company website: en.zz-motor.com
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C
Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

28mm 1.8°精密行星减速步进电机

NEMA 11 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM

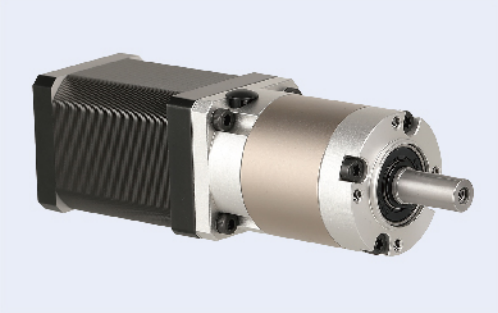


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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

35mm 1.8°精密行星减速步进电机

NEMA 14 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR



常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metall
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 27kgf
● 轴向负荷 Shaft axial load	≤ 10kgf
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
35HS28-0504A	28	0.5	19.5	17.5	0.22	21	4	0.12
35HS30-0804A	30	0.8	3.5	3.5	0.12	21.6	4	0.13
35HS34-0804A	34	0.8	4.3	6.2	0.2	38	4	0.16
35HS44-1504A	44	1.5	2.1	2.8	0.25	43	4	0.18
35HS50-1704A	50	1.7	2	3.2	0.36	56	4	0.21

HPR35行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级					2级							3级						
减速比 Reduction ratio		3	4	5	6	7	9	15	20	25	30	35	42	45	100	120	140	150	175	200
减速机长度（L1）Reducer length（L1）	mm	40					49.5							59						
额定输出扭矩 Rated output torque	N.m	6	7	6	5	5	8	9	8	8	7	7	7	10	9	9	9	8	8	8
瞬时转矩 Torque moment	N.m	2倍于额定允许负载																		
传动效率 Transmission efficiency	%	96					94							90						
噪音 Noise	db	≤55																		
重量 Weight	g	170					220							280						

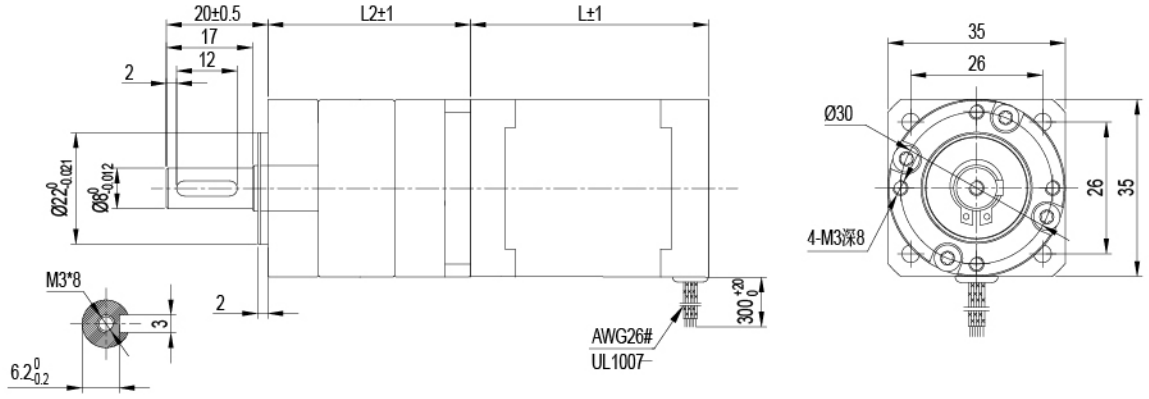
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注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C
Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

35mm 1.8°精密行星减速步进电机

NEMA 14 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

42mm 1.8°精密行星减速步进电机

NEMA 17 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metal
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 30kgf
● 轴向负荷 Shaft axial load	≤ 10kgf
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
42HS20-0804A	20	0.8	3.8	4.5	0.1	24	4	0.12
42HS28-0604A	28	0.6	8	10	0.12	30	4	0.15
42HS34-1304A	34	1.3	2	2.8	0.28	34	4	0.22
42HS40-1704A	40	1.7	2.2	3.8	0.35	54	4	0.28
42HS48-1704A	48	1.7	3.1	5.0	0.52	68	4	0.35
42HS60-1704A	60	1.7	1.25	3.3	0.80	80	4	0.48

HP42行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级					2级									
减速比 Reduction ratio		3	4	5	7	10	16	20	25	28	30	35	40	50	70	100
减速机长度（L1）Reducer length（L1）	mm	方35/圆40					方46/圆51									
额定输出扭矩 Rated output torque	N.m	8	9	9	5	5	10	12	12	10	10	10	10	10	10	5
瞬时转矩 Torque moment	N.m	2倍于额定允许负载														
传动效率 Transmission efficiency	%	96					94									
噪音 Noise	db	≤55														
重量 Weight	g	250					360									

我们可以根据客户要求定制电机的电气参数、电机输出轴尺寸等形状，也可以增配带轮、偏心减速箱和行星减速箱、编码器等，查看更多产品信息请浏览公司网站：www.zz-motor.com
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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

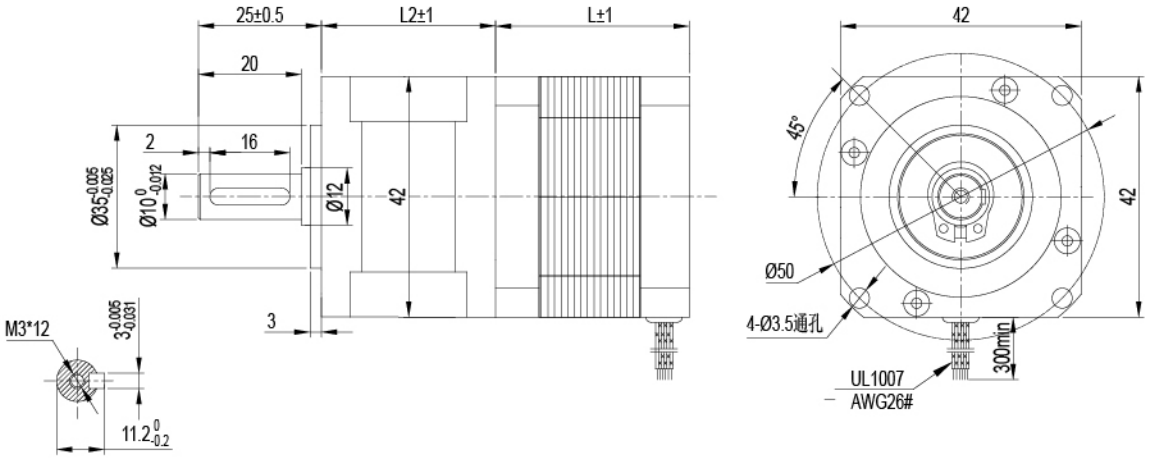
42mm 1.8°精密行星减速步进电机

NEMA 17 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

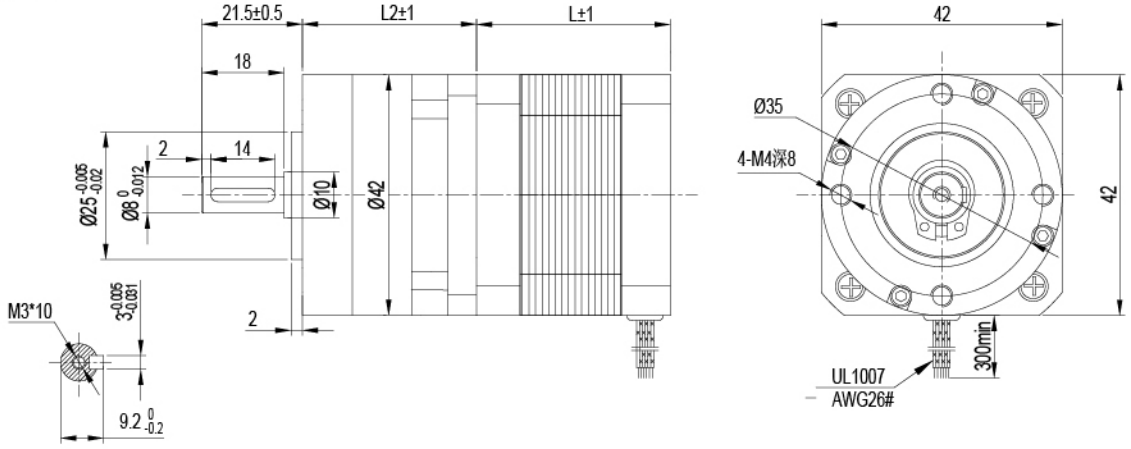
ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM

方法兰：



圆法兰：

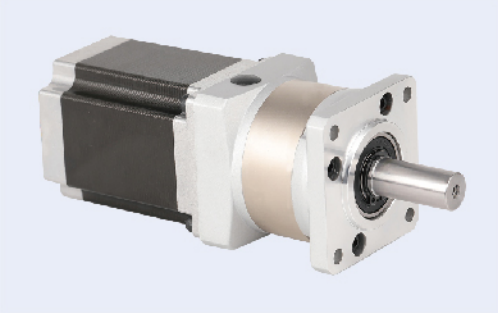


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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

57mm 1.8°精密行星减速步进电机

NEMA 23 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR



常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metal
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 40kgf
● 轴向负荷 Shaft axial load	≤ 23kgf
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
57HS41-2504A	41	2.5	1.1	2.4	0.55	174	4	0.45
57HS51-2004A	51	2.0	1.3	4	0.8	257	4	0.64
57HS56-3004A	56	3.0	1.1	3.5	1.2	300	4	0.7
57HS64-4004A	64	4.0	0.6	1.7	1.4	390	4	0.85
57HS76-3004A	76	3.0	0.5	2.4	1.5	514	4	1
57HS84-3004A	84	3.0	0.57	2.8	1.5	578	4	1.15
57HS100-4204A	100	4.2	0.75	3.4	2.4	758	4	1.25
57HS115-4204A	112	4.2	0.8	3.8	2.5	856	4	1.4

HPS60 行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级					2级									
减速比 Reduction ratio		3	4	5	7	10	16	20	25	28	30	35	40	50	70	100
减速机长度（L1）Reducer length（L1）	mm	57					73									
额定输出扭矩 Rated output torque	N.m	16	25	28	20	10	30	30	32	30	30	30	25	25	20	10
瞬时转矩 Torque moment	N.m	2倍于额定允许负载														
传动效率 Transmission efficiency	%	96					94									
噪音 Noise	db	≤55														
重量 Weight	g	750					960									

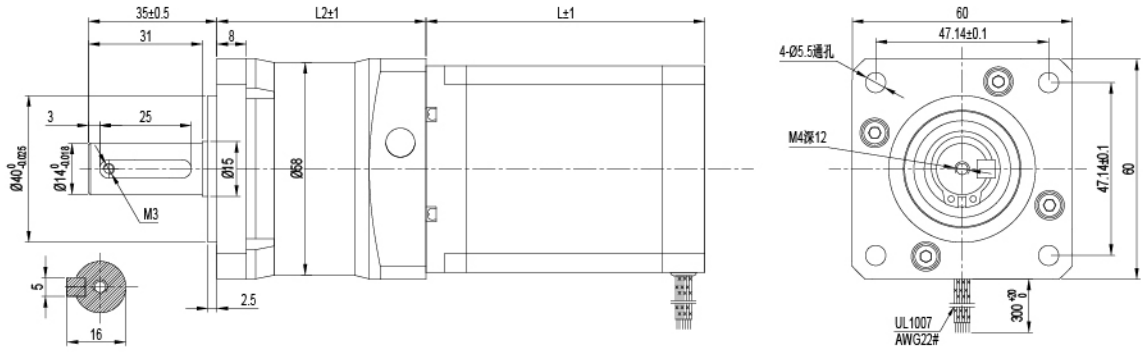
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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

57mm 1.8°精密行星减速步进电机

NEMA 23 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



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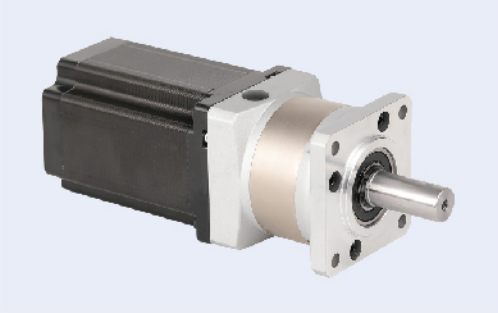
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Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

60mm 1.8°精密行星减速步进电机

NEMA 24 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR



常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metal
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 40kgf
● 轴向负荷 Shaft axial load	≤ 23kgf
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
60HS56-4204A	56	4.2	0.4	1.6	1.25	478	4	0.58
60HS65-2804A	65	2.8	0.95	2.5	1.4	590	4	0.58
60HS88-4204A	88	4.2	0.85	2.8	2.5	987	4	1.4
60HS100-4204A	100	4.2	0.8	3.0	2.8	1163	4	1.6

HPS60行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级					2级									
减速比 Reduction ratio		3	4	5	7	10	16	20	25	28	30	35	40	50	70	100
减速机长度（L1）Reducer length（L1）	mm	57					73									
额定输出扭矩 Rated output torque	N.m	16	25	28	20	10	30	30	32	30	30	30	25	25	20	10
瞬时转矩 Torque moment	N.m	2倍于额定允许负载														
传动效率 Transmission efficiency	%	96					94									
噪音 Noise	db	≤55														
重量 Weight	g	750					960									

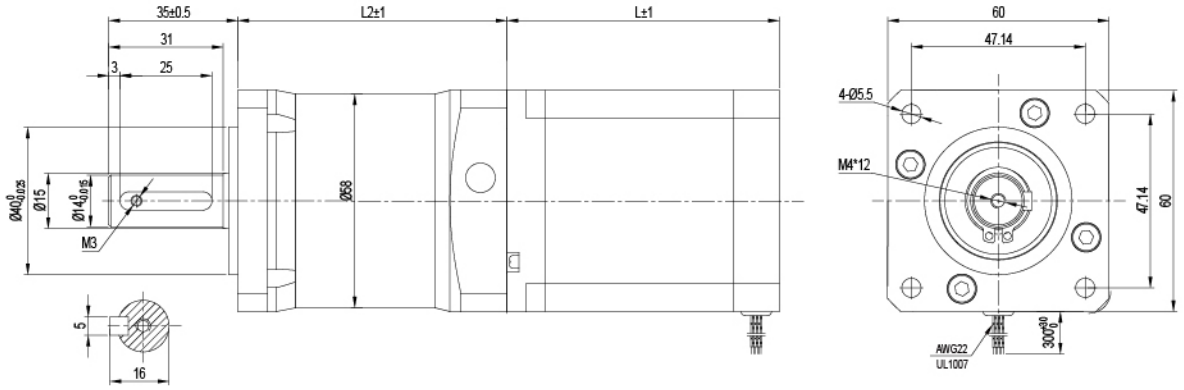
我们可以根据客户要求定制电机的电气参数、电机输出轴尺寸等形状，也可以增配带轮、偏心减速箱和行星减速箱、编码器等，查看更多产品信息请浏览公司网站：www.zz-motor.com
We can customize the motor electrical parameters, output shaft size and other shapes according to customer requirements. We can also add planetary reducers, encoders, etc. For more product information, please visit our company website: en.zz-motor.com
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C
Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

60mm 1.8°精密行星减速步进电机

NEMA 24 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM

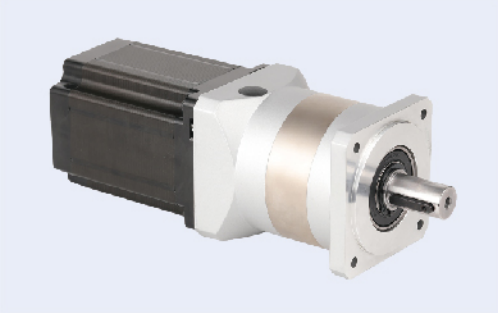


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86mm 1.8°精密行星减速步进电机

NEMA 34 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR



常规参数
GENERAL PARAMETERS

● 齿轮材料 Gear Material	金属 Metal
● 输出轴轴承形式 Bearing at output	滚珠轴承Ball Bearings
● 径向间隙 Radial play of shaft	/
● 轴向间隙 Thrust play of shaft	/
● 径向负荷 Radial load	≤ 1000N
● 轴向负荷 Shaft axial load	≤ 800N
● 背隙（无负载时）Backlash,at no-load	≤ 15 arcmin

常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
86HSA68-4004A	68	4.0	0.6	3.2	3.2	0.85	4	1.85
86HSA80-6004A	80	6.0	0.5	3.5	4.5	1.05	4	2.5
86HSA98-5004A	98	5.0	0.58	5	6.8	1.55	4	3.1
86HSA118-6004A	118	6.0	0.6	6.8	8.5	1.8	4	3.5
86HSA128-5004A	128	5.0	0.6	5.0	9.0	2.2	4	3.9
86HSA158-6004A	158	6.0	0.75	8.5	11	2.5	4	4.2

HPS90 行星减速机技术参数
PLANETARY GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级				2级							
减速比 Reduction ratio		4	5	7	10	16	20	25	28	35	40	50	70
减速机长度（L1）Reducer length（L1）	mm	110				132							
额定输出扭矩 Rated output torque	N.m	80	90	60	39	90	90	100	90	100	90	100	70
瞬时转矩 Torque moment	N.m	2倍于额定允许负载											
传动效率 Transmission efficiency	%	95				94							
噪音 Noise	db	≤55											
重量 Weight	kg	2.9				3.7							

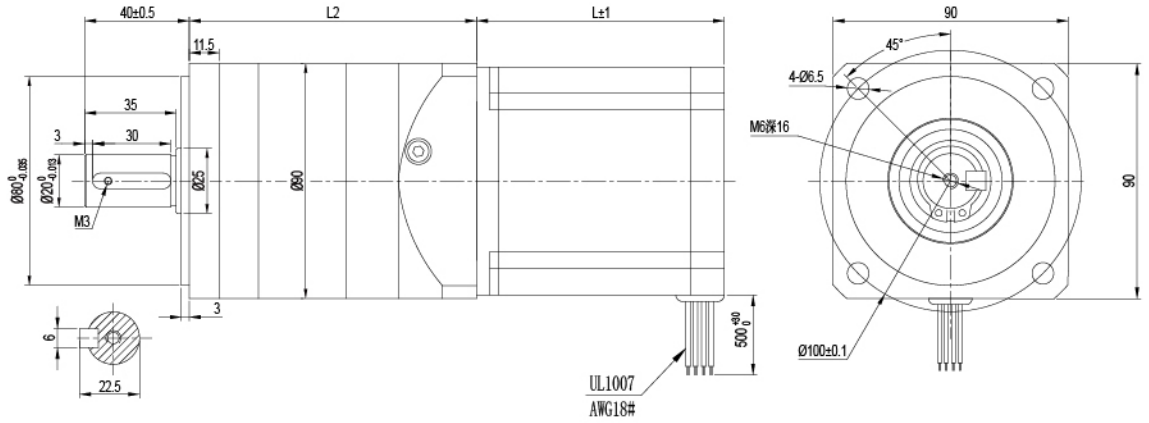
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86mm 1.8°精密行星减速步进电机

NEMA 34 1.8° STEPPER MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



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