

Hollow Shaft Motor

空心轴系列电机

Product Manual • 产品手册



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20mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 8

20法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。
HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。
详细信息请浏览网站或与我们联系。

NEMA 8 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications.
For detailed information, please visit our website or contact us.

Feature

- NEMA 8 Series Flange 20系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	8HY30	8HY40
相电阻 Phase resistance ohm±10%	6.5	6
相电感 Phase inductance mH± 20%	2.2	2
额定电流 Rated current A	0.6	0.6
保持转矩 Holding torque mN.m	18	32
机身 L(max)mm	30	40
电机重量 Motorweight g	50	100
转动惯量 Rotary inertia g.cm²	2	3

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

8HYxx xx-Hxx-E1000

8HYxx-机身长度(Length)

01/04=出线方式，01代表插件，04代表直接出线
01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead

H5=高精度中空轴外径，5毫米
H5=High-Precision Hollow Shaft Outer Diameter, 5mm
E1000=编码器
E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差

Standard shaft outer diameter inner hole and shape and position tolerance

外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ5 ^{+0.012} ₀	<0.03	(φ2-φ3.5)±0.2	<0.2
φ6 ^{+0.012} ₀	<0.03	(φ2.5-φ4.5)±0.2	<0.2

高精度轴外径内孔及形位公差

High-precision shaft outer diameter inner hole and shape and position tolerance

外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) inner hole (high precision)	内孔跳动 inner hole jump
φ5 ^{+0.012} ₀	<0.03	φ3 ^{+0.02} ₀	<0.03
φ6 ^{+0.012} ₀	<0.03	(φ3-φ4) ^{+0.02} ₀	<0.03

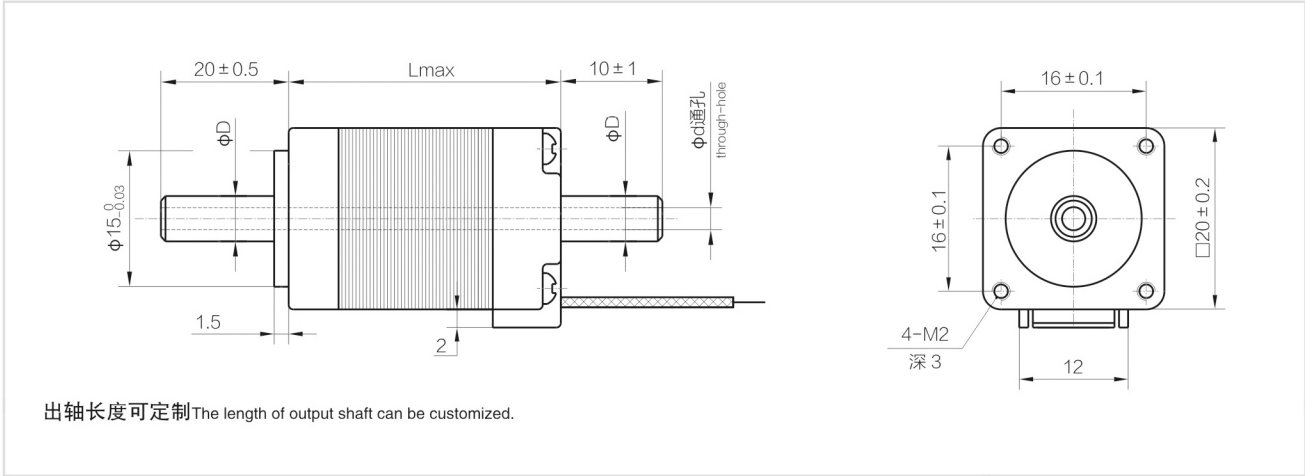
可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息
请与我们联系。Multiple encoders
Drives supported, please contact
us.

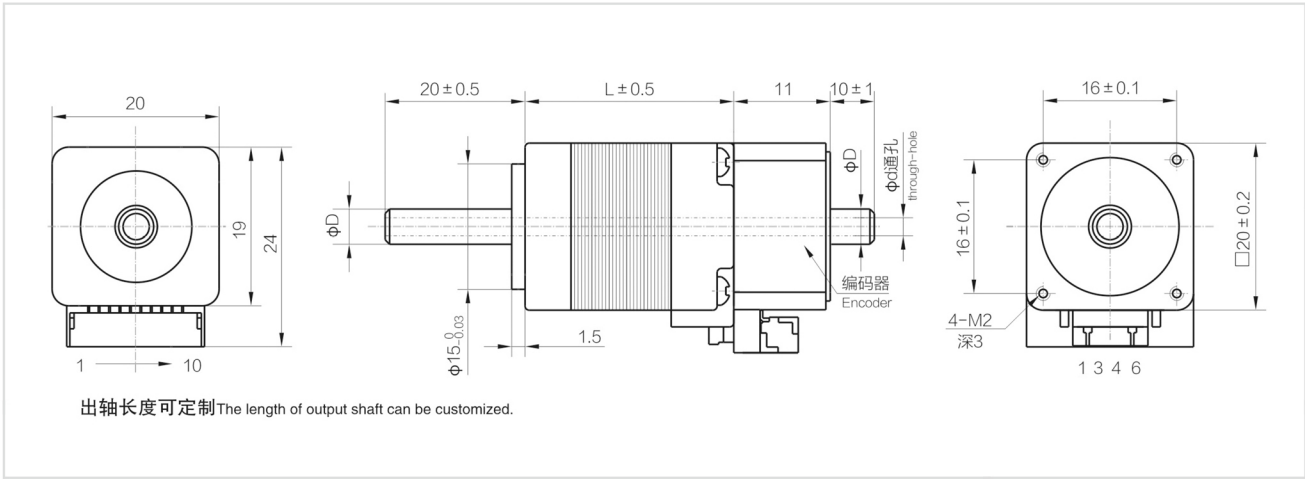
20mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 8

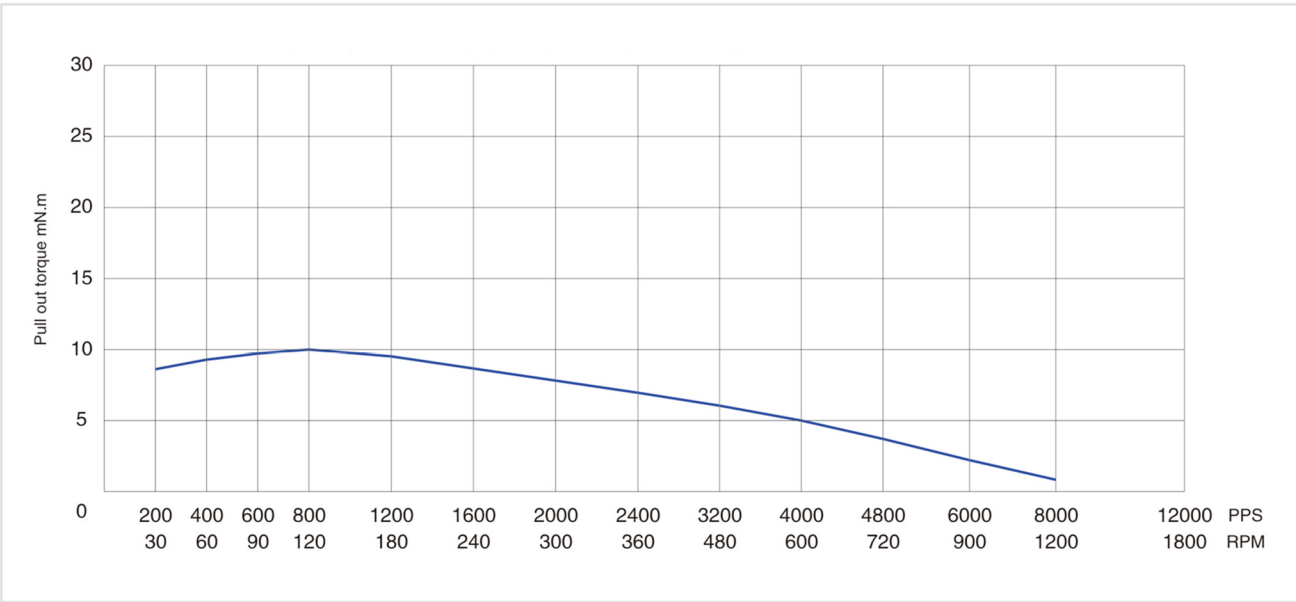
无编码器 Without Encoder



集成编码器 With Encoder



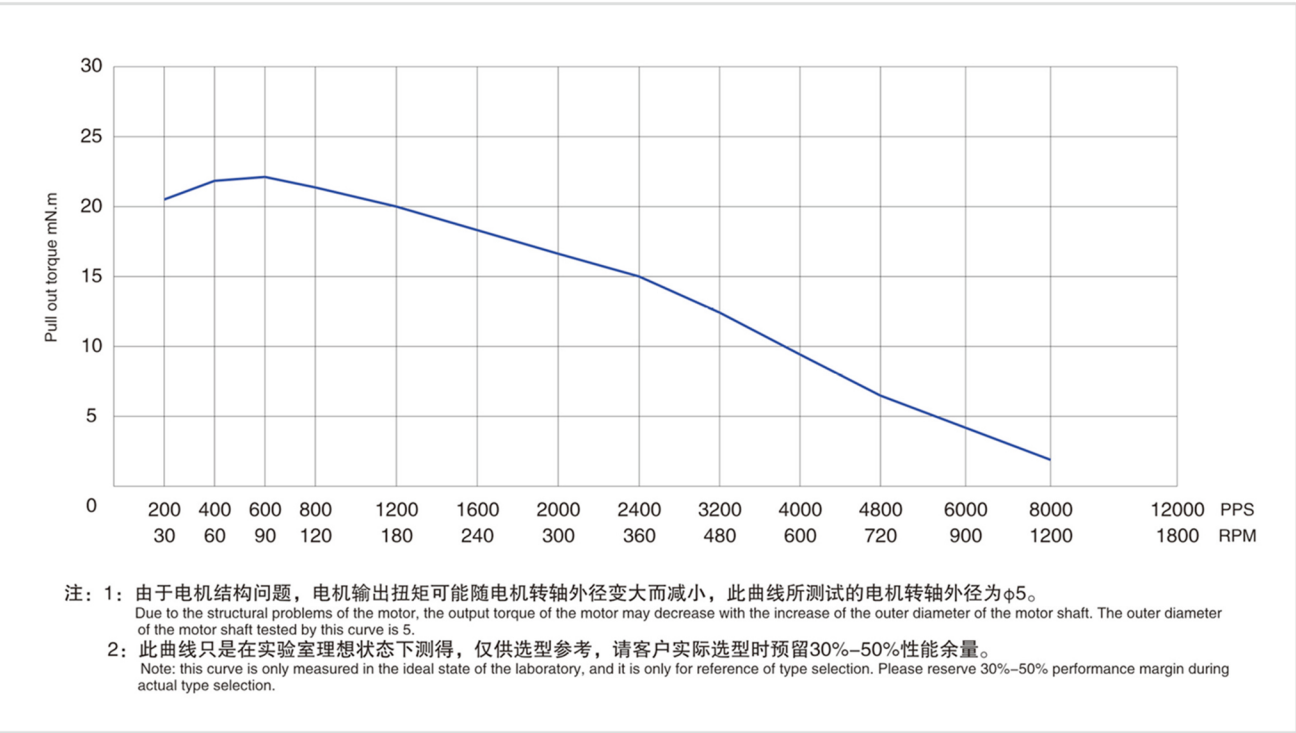
距频特性曲线-8HY30



20mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 8

距频特性曲线-8HY40



28mm法兰空心轴步进电机

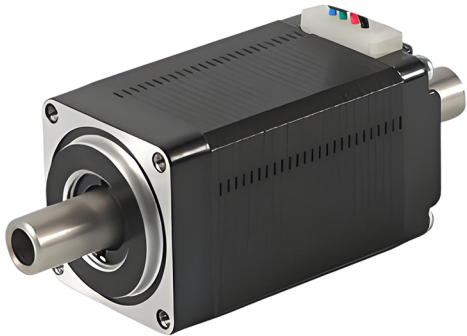
Hollow Shaft Motor-Nema 11

28法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。详细信息请浏览网站或与我们联系。

NEMA 11 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications. For detailed information, please visit our website or contact us.

Feature

- NEMA 11 Series Flange 28系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	11HY34	11HY51
相电阻 Phase resistance ohm±10%	6.5	9.2
相电感 Phase inductance mH± 20%	4.2	9
额定电流 Rated current A	0.75	0.67
保持转矩 Holding torque mN.m	60	120
机身 L(max)mm	34	51
电机重量 Motorweight g	120	180
转动惯量 Rotary inertia g.cm ²	9	18

* 衍生品可以与我们联系 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

11HYxx xx-Hxx-E1000
11HYxx-机身长度(Length)
01/04=出线方式，01代表插件，04代表直接出线 01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead
H5=高精度中空轴外径，5毫米 H5=High-Precision Hollow Shaft Outer Diameter, 5mm
E1000=编码器 E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差 Standard shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ5 $\frac{0}{-0.012}$	<0.03	(φ2–φ3.5) ± 0.2	<0.2
φ7 $\frac{0}{-0.012}$	<0.03	(φ2.5–φ5) ± 0.2	<0.2
φ8 $\frac{0}{-0.012}$	<0.03	(φ2.5–φ6) ± 0.2	<0.2
φ9 $\frac{0}{-0.012}$	<0.03	(φ4–φ7) ± 0.2	<0.2
高精度轴外径内孔及形位公差 High-precision shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) inner hole (high precision)	内孔跳动 inner hole jump
φ5 $\frac{0}{-0.012}$	<0.03	φ3 $\frac{0}{-0.02}$	<0.03
φ7 $\frac{0}{-0.012}$	<0.03	(φ4–φ5) $\frac{0}{-0.02}$	<0.03
φ8 $\frac{0}{-0.012}$	<0.03	(φ4–φ6) $\frac{0}{-0.02}$	<0.03
φ9 $\frac{0}{-0.012}$	<0.03	(φ4–φ7) $\frac{0}{-0.02}$	<0.03

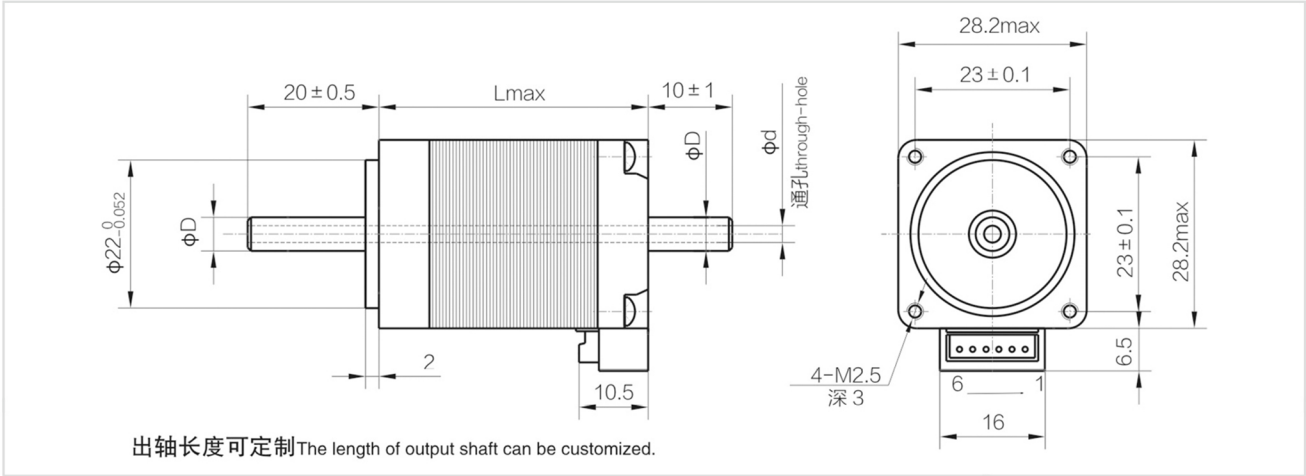
可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息请与我们联络。Multiple encoders Drives supported, please contact us.

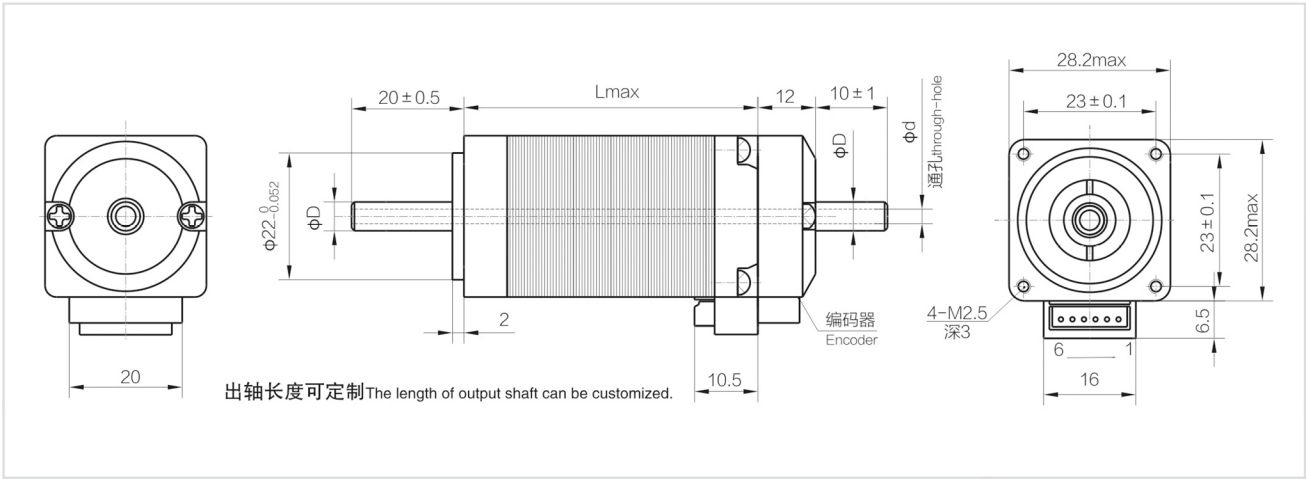
28mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 11

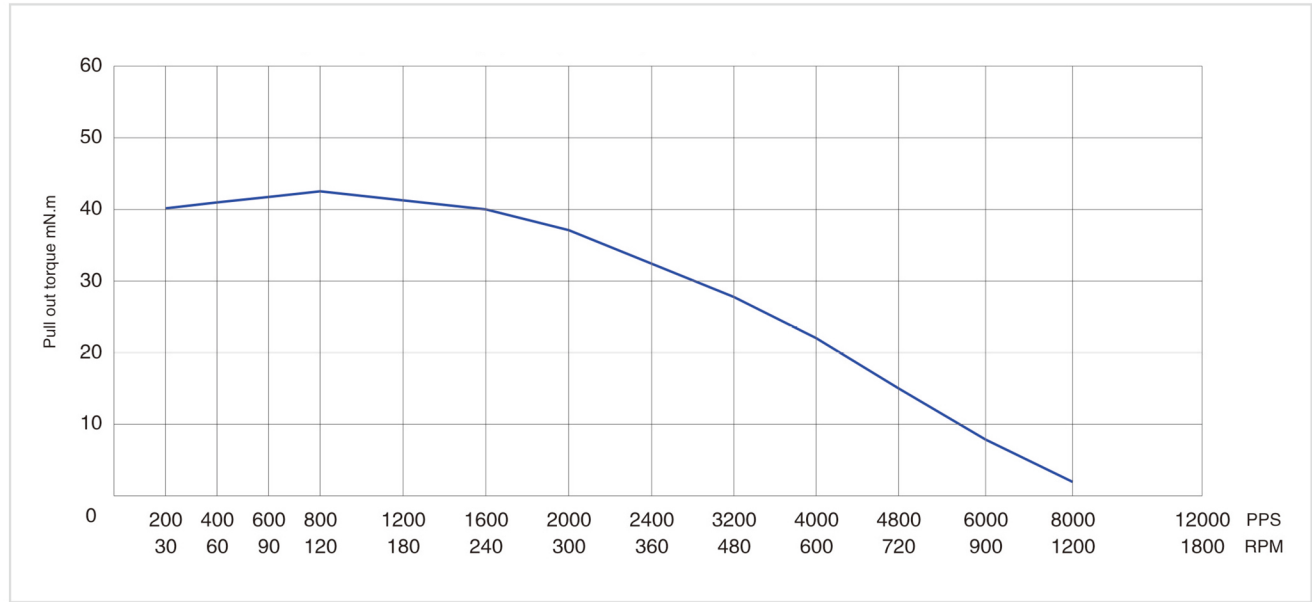
无编码器 Without Encoder



集成编码器 With Encoder



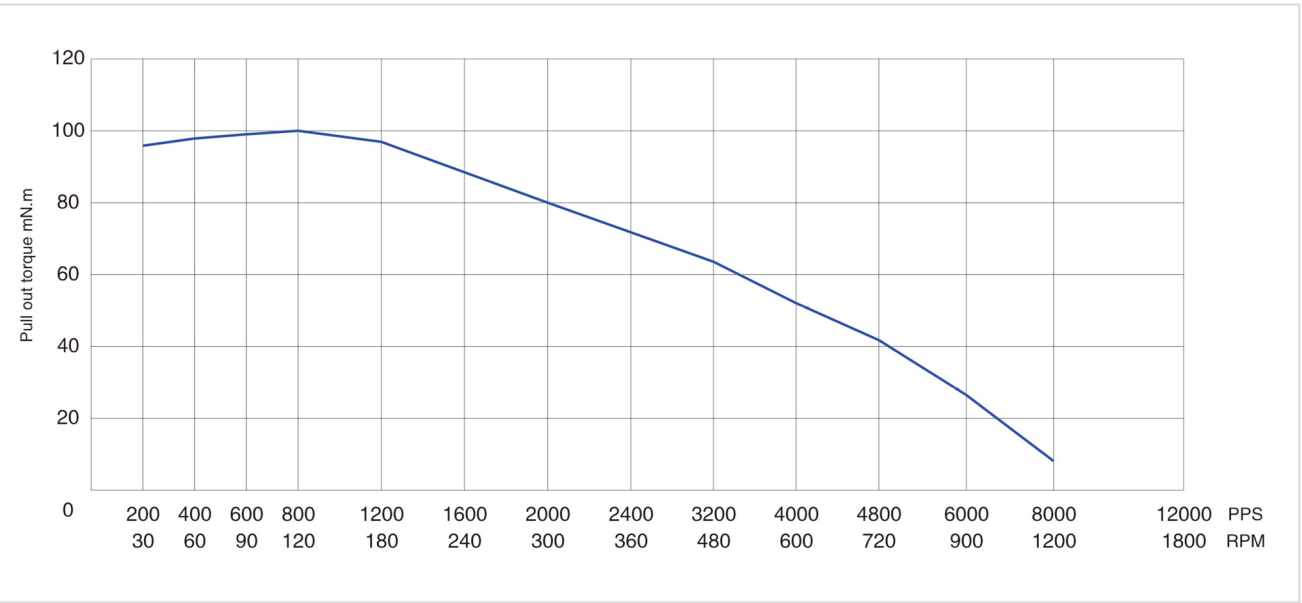
距频特性曲线-11HY34



28mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 11

距频特性曲线-11HY51



35mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 14

35法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。
HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。
详细信息请浏览网站或与我们联系。

NEMA 14 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications.
For detailed information, please visit our website or contact us.

Feature

- NEMA 14 Series Flange 35系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	14HS34
相电阻 Phase resistance ohm±10%	2.7
相电感 Phase inductance mH± 20%	3
额定电流 Rated current A	1
保持转矩 Holding torque mN.m	160
机身 L(max)mm	34
电机重量 Motorweight g	180
转动惯量 Rotary inertia g.cm²	18

* 衍生品可以与我们联系 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

14HSxx xx-Hxx-E1000

14HSxx-机身长度(Length)

01/04=出线方式，01代表插件，04代表直接出线
01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead

H5=高精度中空轴外径，5毫米
H5=High-Precision Hollow Shaft Outer Diameter，5mm
E1000=编码器
E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差 Standard shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ5 _{0.012}	<0.03	(φ2-φ3.5)±0.2	<0.2
φ8 _{0.012}	<0.03	(φ2.5-φ6)±0.2	<0.2
φ10 _{0.012}	<0.03	(φ4-φ8)±0.2	<0.2
高精度轴外径内孔及形位公差 High-precision shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) inner hole (high precision)	内孔跳动 inner hole jump
φ5 _{0.012}	<0.03	φ3 _{0.02}	<0.03
φ8 _{0.012}	<0.03	(φ4-φ6) _{0.02}	<0.03
φ10 _{0.012}	<0.03	(φ4-φ8) _{0.02}	<0.03

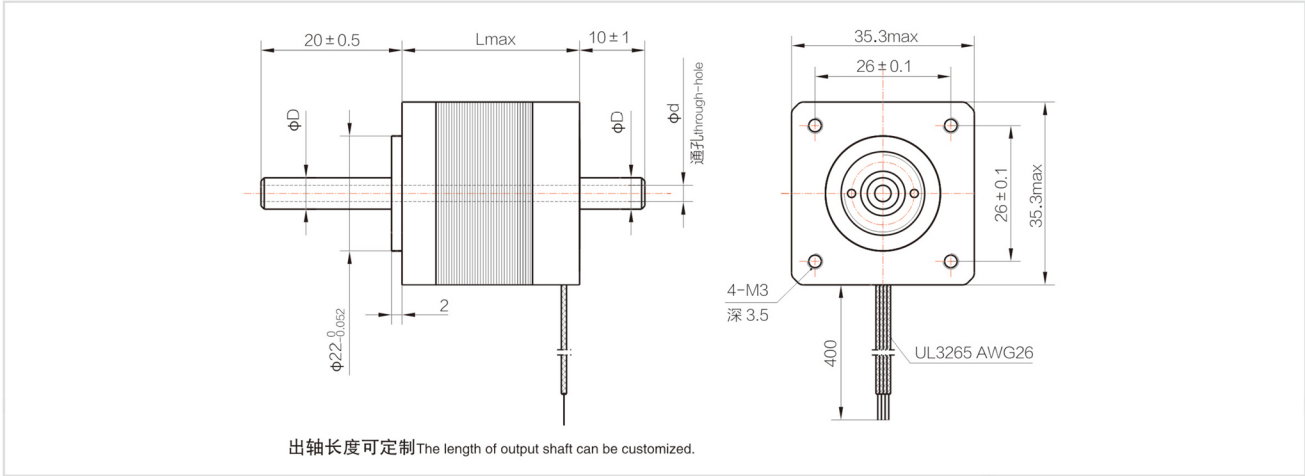
可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息
请与我们联系。Multiple encoders
Drives supported, please contact
us.

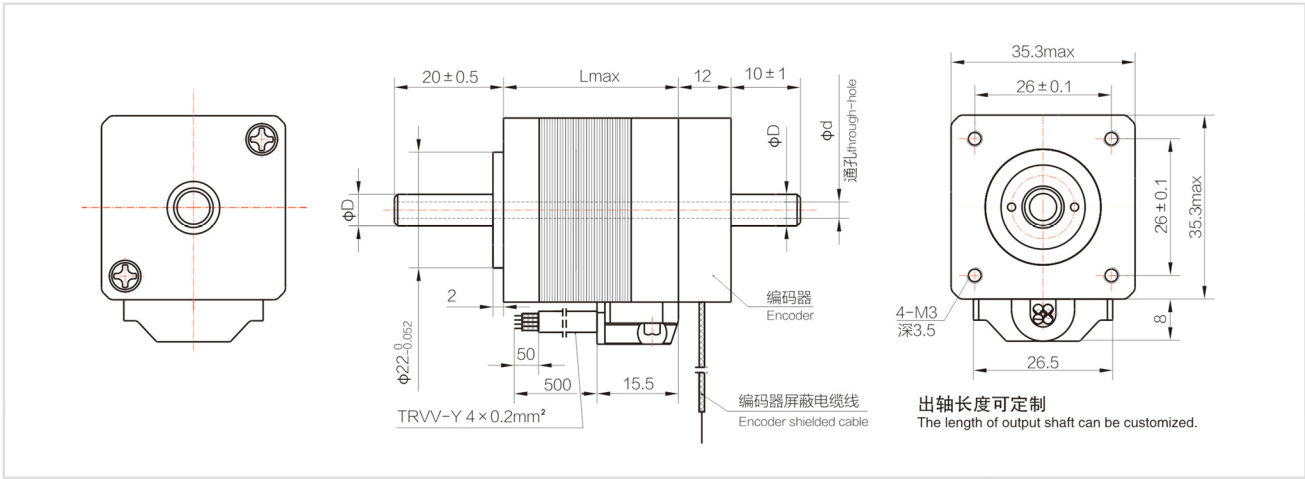
35mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 14

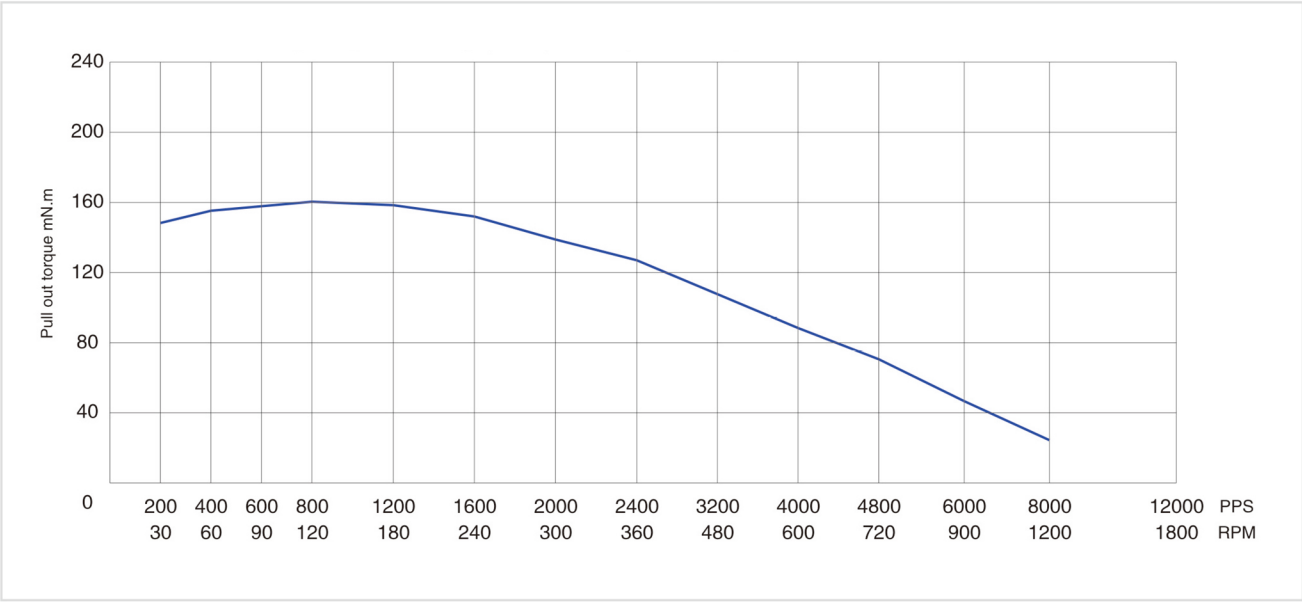
无编码器 Without Encoder



集成编码器 With Encoder



距频特性曲线-14HS34



42mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 17

42法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。详细信息请浏览网站或与我们联系。

NEMA 17 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications. For detailed information, please visit our website or contact us.

Feature

- NEMA 17 Series Flange 42系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	17HS34	17HS48
相电阻 Phase resistance ohm±10%	1.56	2
相电感 Phase inductance mH± 20%	2.4	3.85
额定电流 Rated current A	1.5	1.5
保持转矩 Holding torque mN.m	260	430
机身 L(max)mm	34	48
电机重量 Motorweight g	200	340
转动惯量 Rotary inertia g.cm²	38	82

* 衍生品可以与我们联系 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

17HSxx xx-Hxx-E1000

17HSxx-机身长度(Length)

01/04=出线方式，01代表插件，04代表直接出线
01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead

H5=高精度中空轴外径，5毫米
H5=High-Precision Hollow Shaft Outer Diameter，5mm
E1000=编码器
E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差 Standard shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ5 _{0.012}	<0.03	(φ2-φ3.5) ± 0.2	<0.2
φ8 _{0.012}	<0.03	(φ2.5-φ6) ± 0.2	<0.2
φ10 _{0.012}	<0.03	(φ4-φ8) ± 0.2	<0.2
φ12 _{0.012}	<0.03	(φ5-φ10) ± 0.2	<0.2

高精度轴外径内孔及形位公差 High-precision shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) inner hole (high precision)	内孔跳动 inner hole jump
φ5 _{0.012}	<0.03	φ3 _{0.02}	<0.03
φ8 _{0.012}	<0.03	(φ4-φ6) _{0.02}	<0.03
φ10 _{0.012}	<0.03	(φ4-φ8) _{0.02}	<0.03
φ12 _{0.012}	<0.03	(φ5-φ10) _{0.02}	<0.03

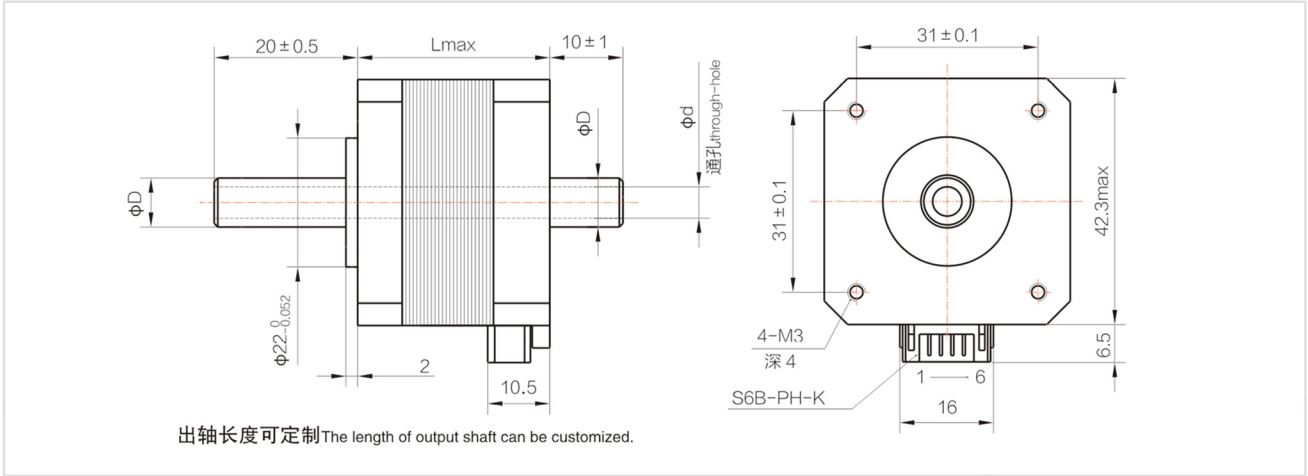
可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息
请与我们联系。Multiple encoders
Drives supported, please contact
us.

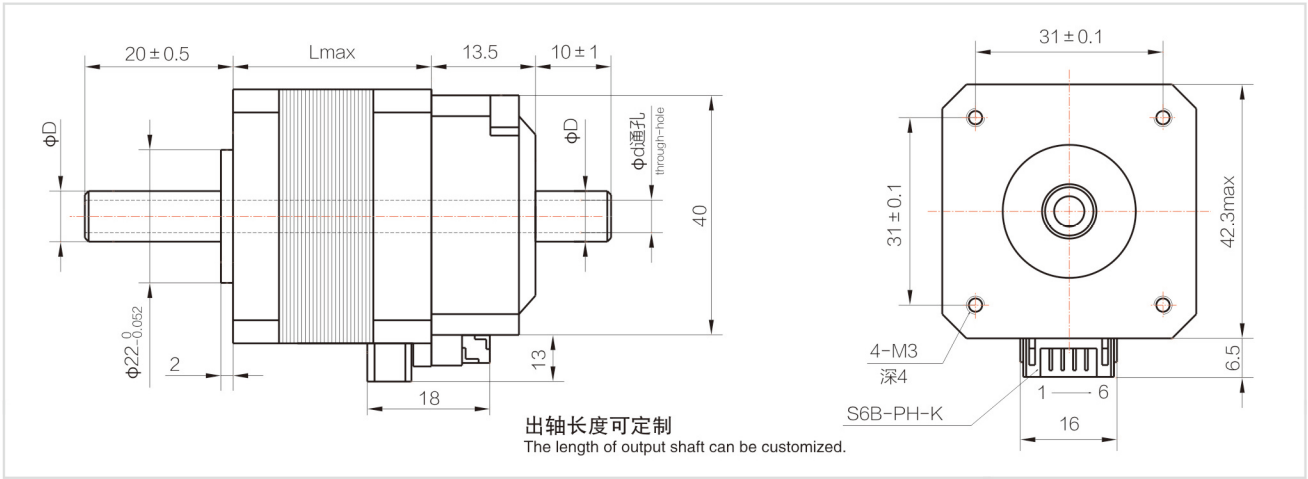
42mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 17

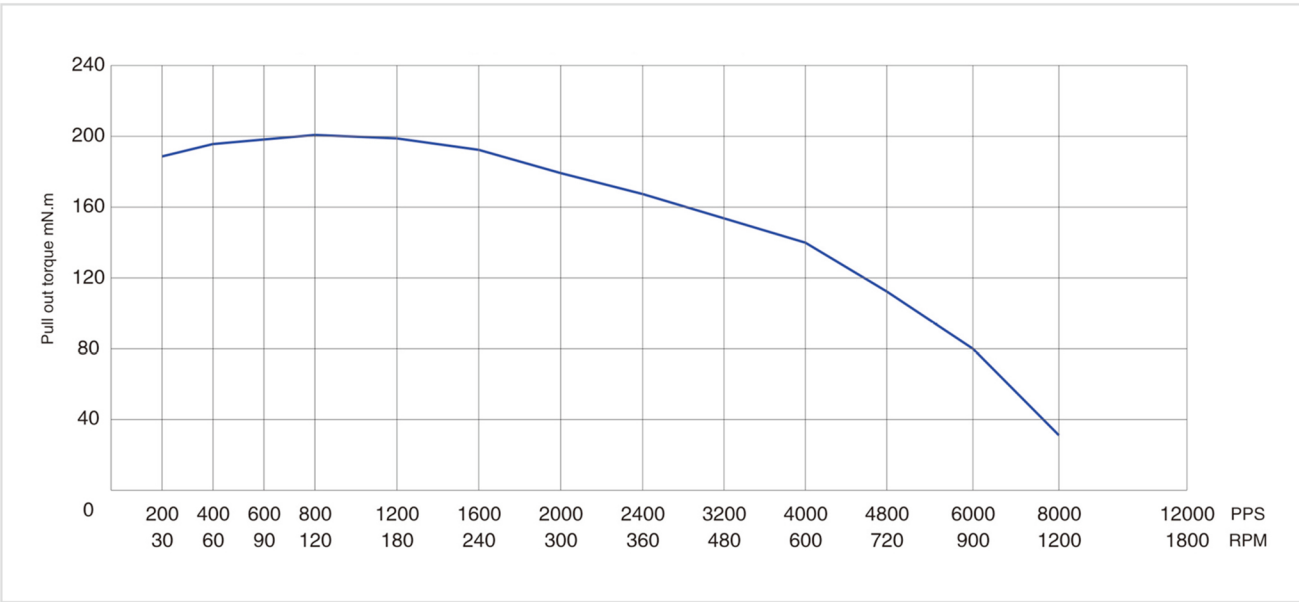
无编码器 Without Encoder



集成编码器 With Encoder



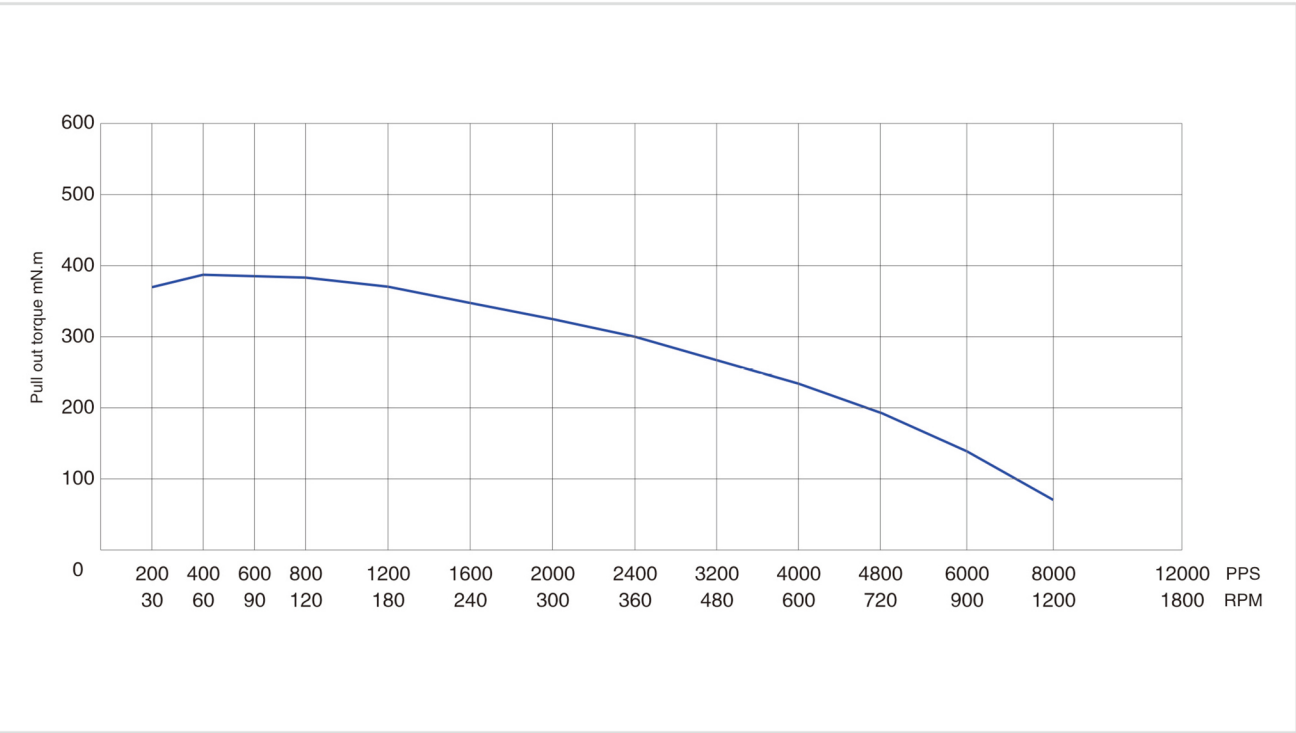
距频特性曲线-17HS34



42mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 17

距频特性曲线-17HS48



57mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 23

57法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。详细信息请浏览网站或与我们联系。

NEMA 23 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications. For detailed information, please visit our website or contact us.



Feature

- NEMA 23 Series Flange 57系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用

VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电阻 Phase resistance ohm±10%	1.63	1.1	0.5
相电感 Phase inductance mH± 20%	4.2	3.2	1.7
额定电流 Rated current A	2	3	4
保持转矩 Holding torque N.m	0.7	1.3	1.6
机身 L(max)mm	45	56	76
电机重量 Motorweight g	500	620	1000
转动惯量 Rotary inertia g.cm ²	155	280	460

* 衍生品可以与我们联系 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

23HSxx xx-Hxx-E1000

23HSxx-机身长度(Length)

01/04=出线方式，01代表插件，04代表直接出线
01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead

H5=高精度中空轴外径，5毫米
H5=High-Precision Hollow Shaft Outer Diameter, 5mm
E1000=编码器
E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差 Standard shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ10 _{-0.015}	<0.03	(φ4-φ8) ± 0.2	<0.2
φ12 _{-0.015}	<0.03	(φ5-φ10) ± 0.2	<0.2
φ15 _{-0.015}	<0.03	(φ8-φ12) ± 0.2	<0.2
φ25 _{-0.015}	<0.03	(φ15-φ20) ± 0.2	<0.2
高精度轴外径内孔及形位公差 High-precision shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) inner hole (high precision)	内孔跳动 inner hole jump
φ10 _{-0.015}	<0.03	(φ4-φ8) _{0.02}	<0.03
φ12 _{-0.015}	<0.03	(φ5-φ10) _{0.02}	<0.03
φ15 _{-0.015}	<0.03	(φ8-φ12) _{0.03}	<0.05
φ25 _{-0.015}	<0.03	(φ15-φ20) _{0.03}	<0.05

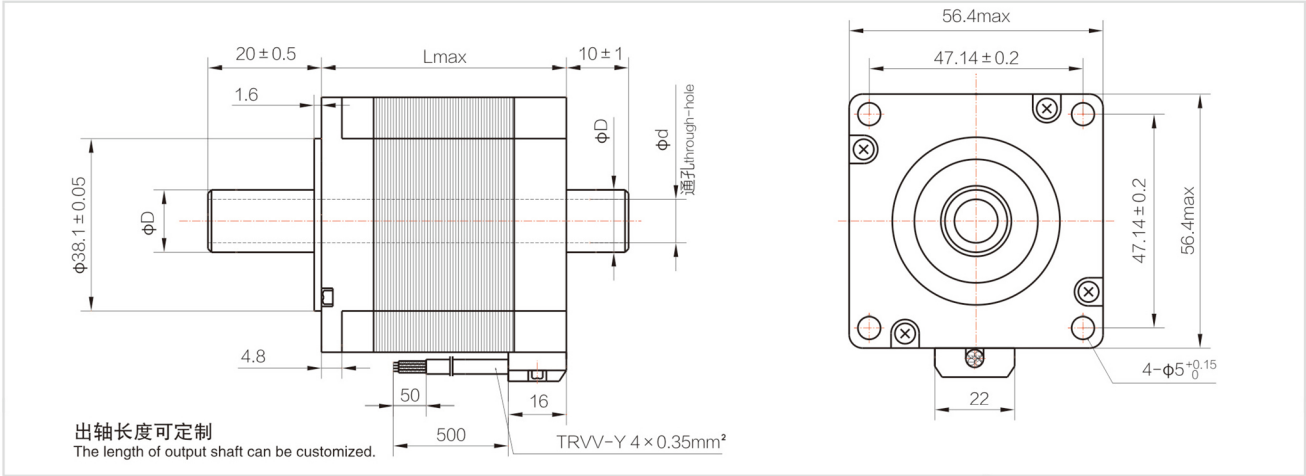
可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息
请与我们联系。Multiple encoders
Drives supported, please contact
us.

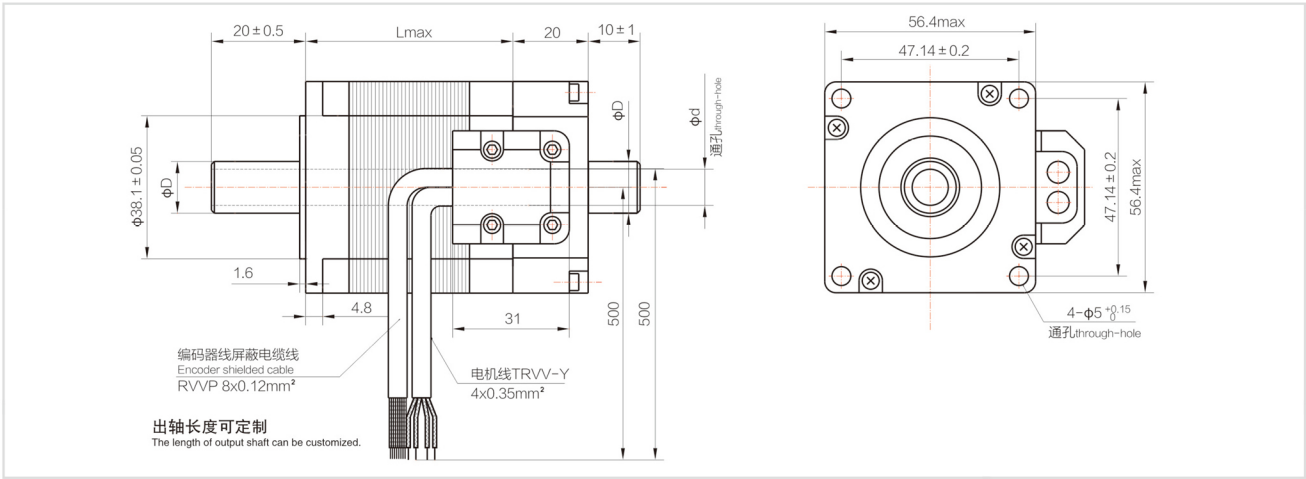
57mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 23

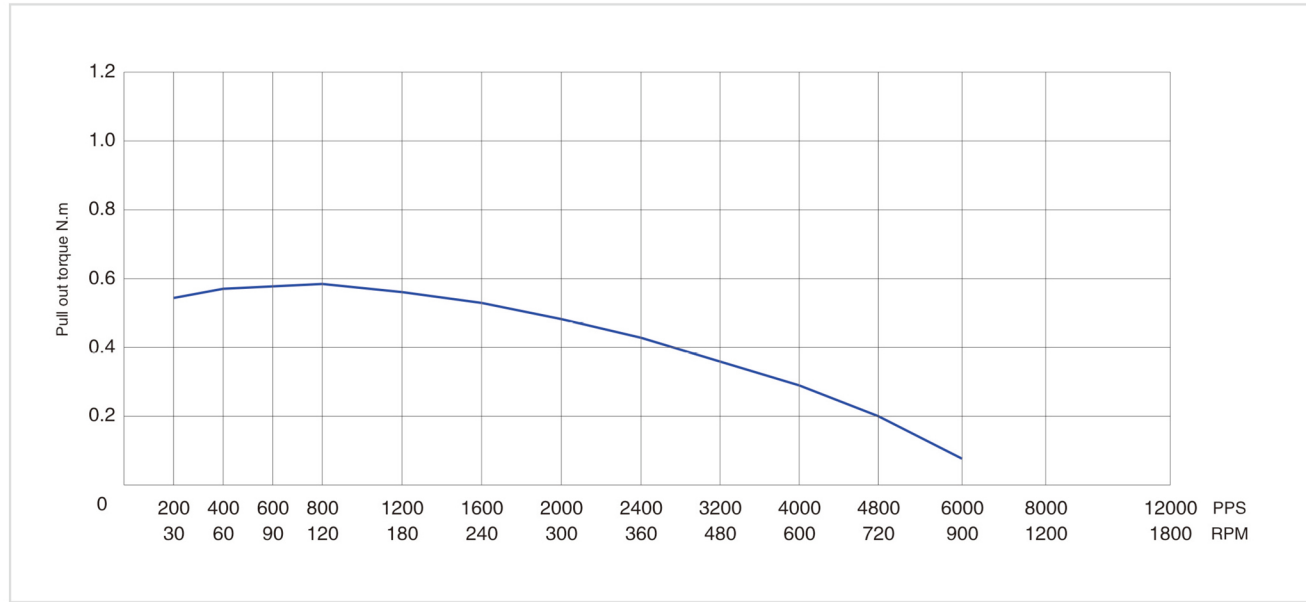
无编码器 Without Encoder



集成编码器 With Encoder



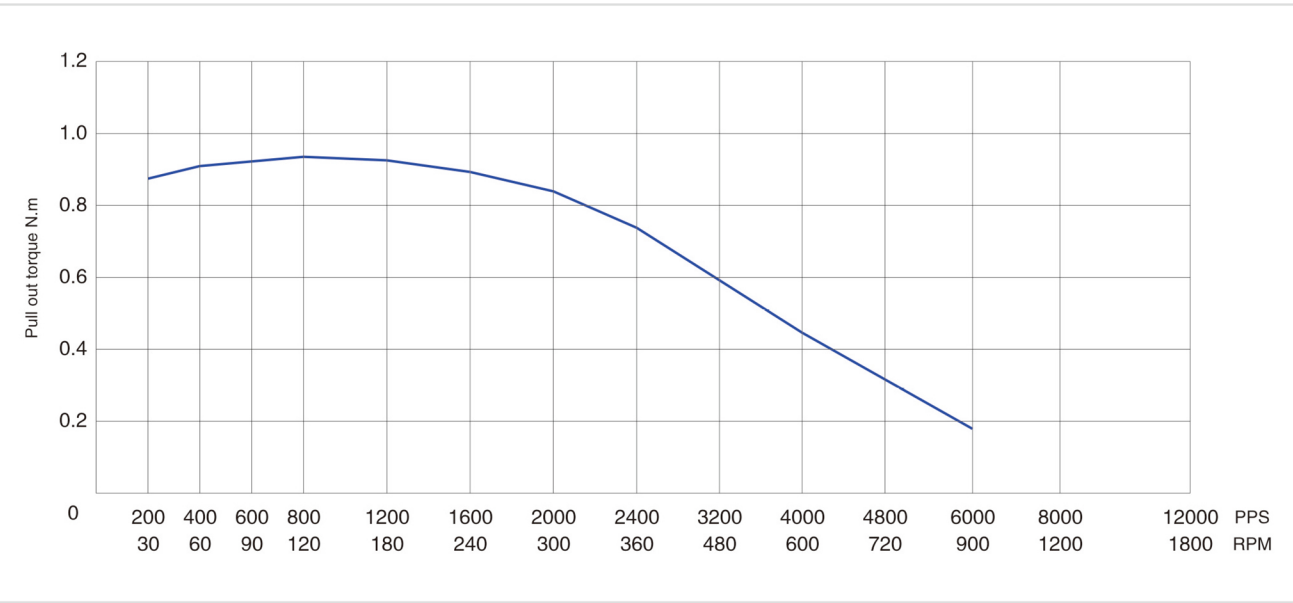
距频特性曲线-23HS45



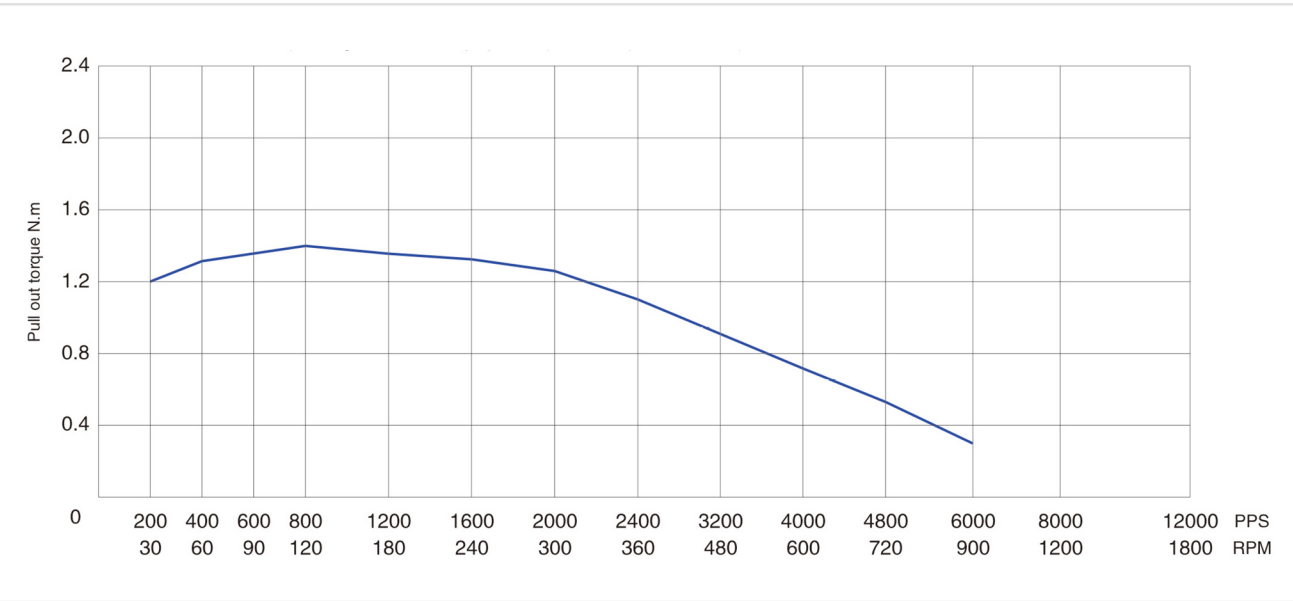
57mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 23

距频特性曲线-23HS56



距频特性曲线-23HS76



86mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 34

86法兰空心轴步进电机，支持高精度通孔加工和标准通孔加工，满足不同的应用场景。HE电机版本支持预装编码器。所有电机支持丰富规格的驱动器可选。详细信息请浏览网站或与我们联系。

NEMA 34 Flange Hollow Shaft Stepper Motors,These motors support both high-precision and standard through-hole machining, catering to a variety of application requirements. The HE motor variant comes pre-equipped with an encoder. All motors are compatible with a wide range of drive specifications. For detailed information, please visit our website or contact us.

Feature

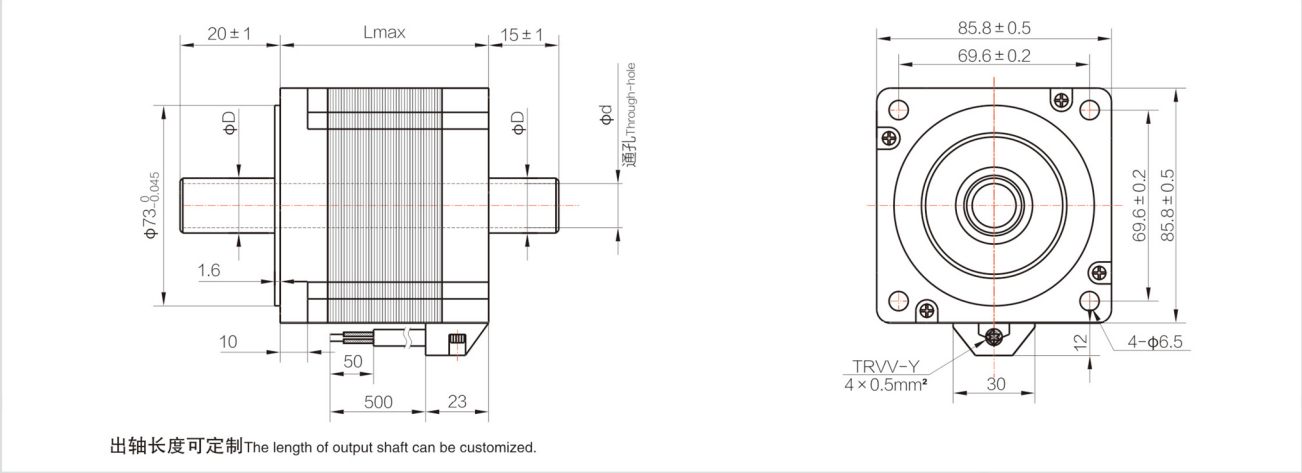
- NEMA 34 Series Flange 86系列法兰
- Encoder Compatible / Supports Encoder Integration 可配套编码器
- Extended Service Life and Enhanced Precision 更长的寿命和更高的精度
- Available in Different Lengths 提供不同长度
- Motor Controllers/Drivers Available 电机控制器/驱动器可用



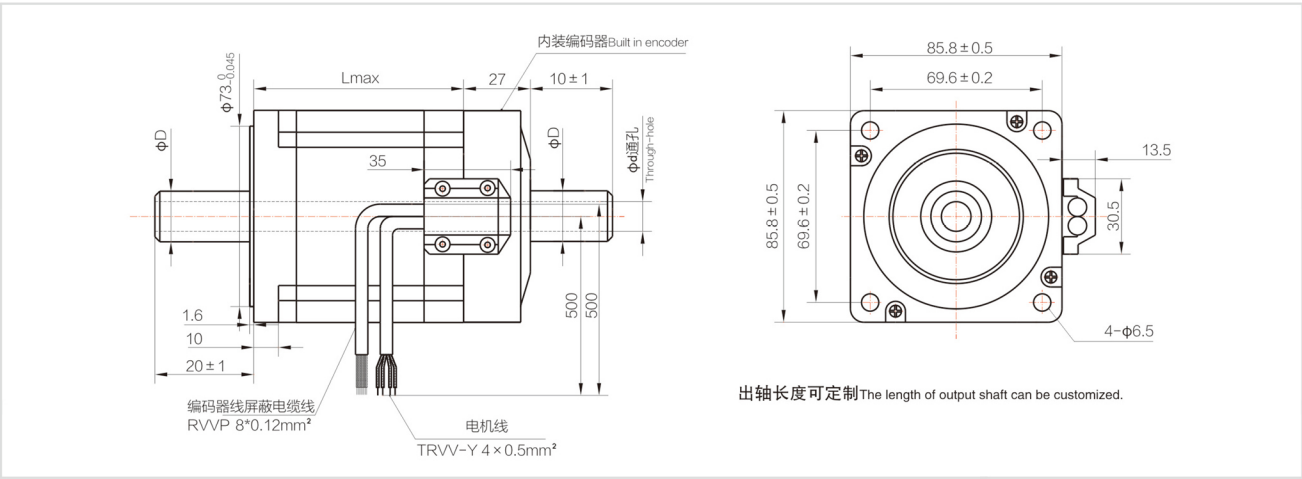
86mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 34

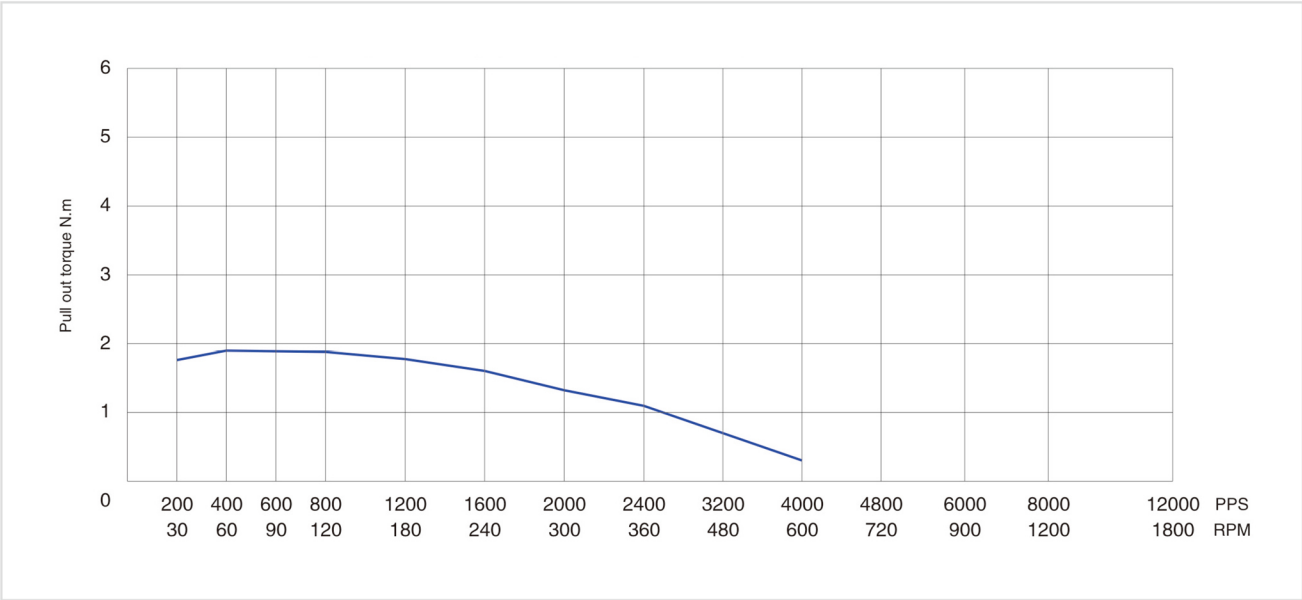
无编码器 Without Encoder



集成编码器 With Encoder



矩频特性曲线-34HS76



VERSIONS

系列代码 Series models	34HS76	34HS98
相电阻 Phase resistance ohm±10%	0.5	0.4
相电感 Phase inductance mH±20%	4.5	4
额定电流 Rated current A	4	6
保持转矩 Holding torque N.m	3.5	7
机身 L(max)mm	76	98
电机重量 Motorweight g	1400	2700
转动惯量 Rotary inertia g.cm²	1400	1700

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

34HSxx xx-Hxx-E1000

34HSxx-机身长度(Length)

01/04=出线方式，01代表插件，04代表直接出线
01/04=Motor outlet mode:01 stands for plug-in and 04 stands for lead

H5=高精度中空轴外径，5毫米
H5=High-Precision Hollow Shaft Outer Diameter, 5mm

E1000=编码器
E1000=Encoder

可选规格 AVAILABLE OPTIONS

标准轴外径内孔及形位公差 Standard shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd bore	内孔跳动 inner hole jump
φ15 _{-0.015}	<0.03	(φ8-φ12)±0.2	<0.2
φ20 _{-0.015}	<0.03	(φ8-φ12)±0.2	<0.2
φ25 _{-0.015}	<0.03	(φ15-φ20)±0.2	<0.2
φ35 _{-0.015}	<0.03	(φ15-φ20)±0.2	<0.2

高精度轴外径内孔及形位公差 High-precision shaft outer diameter inner hole and shape and position tolerance			
外径φD outside diameter	外径跳动 outer diameter runout	内孔φd(高精度) Inner hole (high precision)	内孔跳动 Inner hole jump
φ20 _{-0.015}	<0.03	(φ14-φ16) _{0^{-0.03}}	<0.05
φ25 _{-0.015}	<0.03	(φ15-φ20) _{0^{-0.03}}	<0.05
φ35 _{-0.015}	<0.03	(φ20-φ30) _{0^{-0.03}}	<0.05

可选配件 ACCESSORIES

- Encoder 高精度编码器
- Motor Controllers/Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息
请与我们联系。Multiple encoders
Drives supported, please contact
us.

86mm法兰空心轴步进电机

Hollow Shaft Motor-Nema 34

距频特性曲线-34HS98

