

## 86HSM85H-E1/86HSM120H-E1

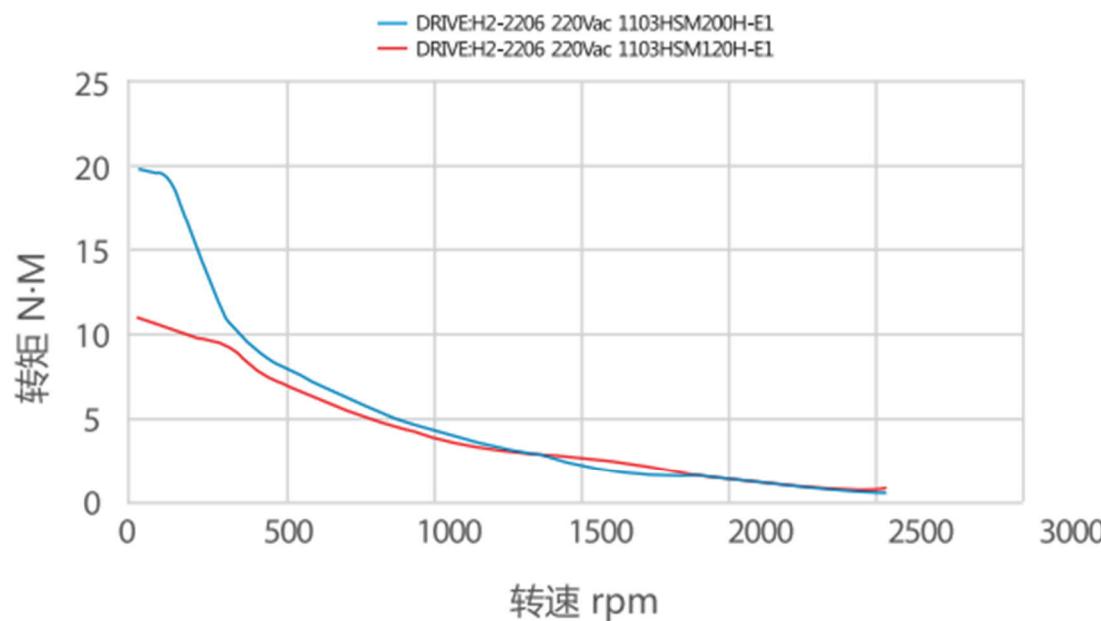
### Technical Parameters

#### 1. General Specifications

temperature rise	80K
use environment	Temperature: -10~+50°C; Humidity: 85% MAX
Insulation class	B
Insulation resistance	100MΩ MIN 500Vdc
withstand voltage	1500Vac 1min
Radial runout	0.025 mm MAX (load 5N)
Axial runout	0.075 mm MAX (load 10N)

#### 2. Technical specifications

motor model	Holding torque (N m)	Rated current (A)	Fuselage length L (mm)	Moment of inertia (kg·cm <sup>2</sup> )	Motor mass (kg)
1103HSM120H-E1	12	4.2	162	10.8	8.6
1103HSM200H-E1	20	5.2	244	17	12.8



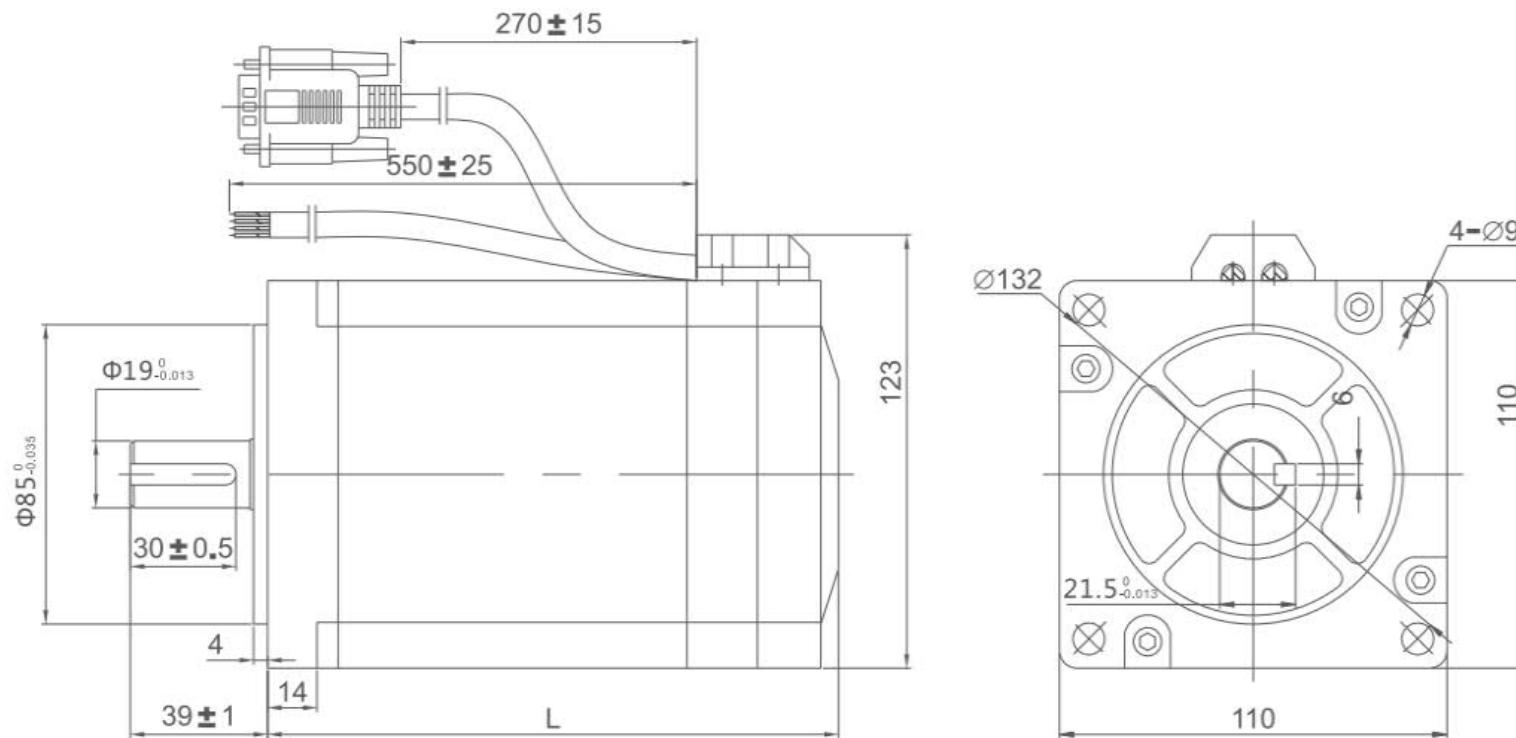
110机座 ( 220Vac) 矩频曲线图

## Series Model

cabin seat no	Standard type (IP65)	Holding torque (N m)	Fuselage length (standard type) (mm)	Adapt drive
20 bases	<u>20HSM003-E1</u>	0.03	53	
28 seats	<u>28HSM006-E1</u>	0.06	68	
42 bases	<u>42HSM06-E1</u>	0.6	75	H2-506
	<u>42HSM08-E1</u>	0.8	85	
57 seats	<u>57HSM08-E1</u>	0.8	59	
	<u>57HSM14-E1</u>	1.4	74	
	<u>57HSM24-E1</u>	2.4	95	
	<u>57HSM27-E1</u>	2.7	103	
60 bases	<u>60HSM22-E1</u>	2.2	85	
	<u>60HSM30-E1</u>	3	103	
86 bases two phase low voltage	<u>86HSM35-E1</u>	3.5	94	H2-758
	<u>86HSM45-E1</u>	4.5	108	
	<u>86HSM80-E1</u>	8	126	
	<u>86HSM85-E1</u>	8.5	146	
86 frame two-phase high voltage	<u>86HSM85H-E1</u>	8.5	146	H2-1108/ HBS1108S
	<u>86HSM120H-E1</u>	12	157	
86 frame three-phase high voltage	<u>863HSM80H-E1</u>	8	157	H2-2206
	<u>863HSM100H-E1</u>	10	184	
110 base	<u>1103HSM120H-E1</u>	12	162	
	<u>1103HSM200H-E1</u>	20	244	

## Dimensions

MODEL	LENGTH (mm)	HOLDING TORQUE (N·m)	RATED CURRENT (A)	MOMENT OF INERTIA (Kg·cm <sup>2</sup> )
1103HSM120H-E1/E5Z	162	12.0	4.2	10.8
1103HSM200H-E1/E5Z	244	20.0	5.2	17



# H2-2206

## Technical Parameters

### 1. Electrical indicators

parameter	H2-2206			
	minimum value	typical value	maximum value	unit
Continuous output current	0	-	6	A
Input supply voltage	180	220	230	VAC
Logic input current	7	10	20	mA
Pulse frequency	0	200	300	kHz
Insulation resistance	100	-	-	MΩ
Alarm output logic current	-	-	100	mA

### 2. Interface definition

#### 1) Power terminal interface 1

Terminal number	symbol	name	illustrate
1	L	Power input terminal, according to the matching motor, between L and N indirect AC 180~230V	
2	N		
3	NC		
4	BR	External braking resistor	The braking resistor is connected between BR and P+
5	P+	DC bus voltage	

#### 2) Power terminal interface 2

Terminal number	symbol	name	illustrate
1	u	Simple Servo Motor Terminals (Note that the wiring color cannot be mistaken)	red
2	v		blue
3	w		black
4	PE	Chassis	yellow
5	L	Control power input	Range 180~230VAC
6	N		

#### 3) Control signal port (44-pin DB head)

Terminal number	symbol	name	illustrate
3	PUL+	Pulse positive input	Only compatible with 5V
4	PUL-	Pulse Negative Input	
5	DIR+	Direction positive input	Only compatible with 5V
6	DIR-	Negative direction input	
7	ALM+	Alarm positive output	It can be set as a brake signal by adjusting parameters
8	ALM-	Alarm negative output	
9	Pend+	In-position signal positive output	
10	Pend-	In place signal negative output	

11	ENA+	Enable positive input	5V and 24V compatible
12	ENA-	Enable Negative Input	
twenty three	EA+	Encoder output A signal positive terminal	
twenty four	EA-	Encoder output A signal negative terminal	
25	EB+	Encoder output B signal positive terminal	
26	EB-	Encoder output B signal negative terminal	
27	Z+	Encoder output Z signal positive terminal	
28	Z-	Encoder output Z signal negative terminal	

#### 4) Encoder input port

DB header pin	Signal	describe
1	EA+	Encoder A channel positive input
2	EB+	Encoder B channel positive input
3	GND	Encoder GND input
11	EA-	Encoder A channel negative input
12	EB-	Encoder B channel negative input
13	VCC	Encoder +5V power input

#### 3. Use environment and parameters

cooling method	Natural cooling or external radiator	
use environment	occasions of use	Try to avoid dust, oil mist and corrosive gas
	temperature	0°C—50°C
	humidity	40—90%RH
	shock	10~55Hz/0.15mm
storage temperature	-20°C—65°C	
weight	about 1400 grams	

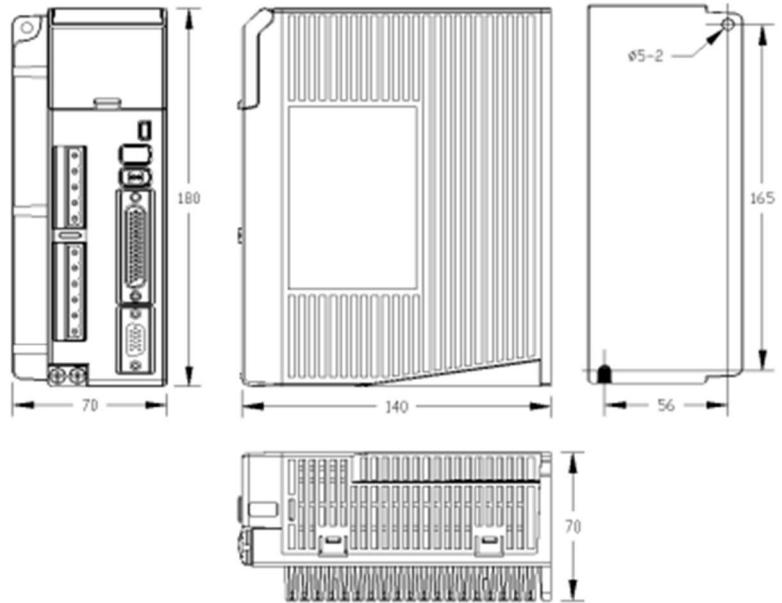
## Series Model

型号	相数	峰值电流 (A)	工作电压 (V)	适配电机	重量 (kg)	外形尺寸	控制信号
H2-506	两相	6	24-50DC	42\57\60	0.28	125*99*44	差分/单端
H2-758	两相	8	50-80AC	86	1.2	158*130*54	差分/单端
H2-1108	两相	8	70-110AC	86	1.5	180*140*70	差分/单端
H2-2206	三相	6	180-230AC	86\110	1.5	180*140*70	差分/单端

## Package product

机座号	混合伺服电机型号				保持转矩 (N·m)	机身长 (标准型) (mm)
	标准型 (IP65)	高性能型 (IP65)	带制动器型 (IP65)	防水型 (IP67)		
86机座	863HSM80H-E1	863HSM80H-E5Z	863HSM80H-B-E1/E5Z	863HSM80H-P-E1/E5Z	8	157
三相高压	863HSM100H-E1	863HSM100H-E5Z	863HSM100H-B-E1/E5Z	863HSM100H-P-E1/E5Z	10	184
110机座	1103HSM120H-E1	1103HSM120H-E5Z	1103HSM120H-B-E1/E5Z		12	162
	1103HSM200H-E1	1103HSM200H-E5Z			20	244

## Dimensions



机械安装尺寸图(单位:mm)