

深圳市威科达科技有限公司

MH SERIES LOW/MEDIUM INERTIA SERVO SYSTEM

MH系列低/中惯量伺服系统

运动控制整案定制专家

MOTION CONTROL ENTIRE CASE CUSTOMIZATION EXPERT



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公司介绍

ABOUT US

威科达是一家专注于运动控制器和伺服系统的研发、生产和应用的国家高新技术企业。19年来一直致力于为中高端设备制造企业提供专业化、个性化、简单化、适合化

拥有自主知识产权的运动控制器、伺服系统、专用型伺服驱动器，在包装印刷、印前印后设备、锂电池行业、张力卷绕、金属加工、新能源汽车、3C电子、机床第四第五轴、机器人等行业有广泛的应用，深受各行业头部企业的认可。有自己的产品研发中心和生产基地，在全国设有多个办事处及代理商。威科达的核心竞争力是实现产品研发与产品应用的无缝配合，运动控制整案定制专家，深度解决工业自动化控制痛点，让设备运行更加稳定高效。

Wikoda is a national high-tech enterprise focusing on the research and development, production and application of motion controller and servo system. For 19 years, it has been committed to providing professional, personalized, simple and suitable motion control overall solutions for middle and high-end equipment manufacturing enterprises.

With independent intellectual property rights of motion controller, servo system, special servo drive, in packaging printing, pre-press and post-press equipment, lithium battery industry, tension winding, metal processing, new energy vehicles, 3C electronics, the fourth and fifth axis of machine tools, robotics and other industries have a wide range of applications, recognized by the industry's leading enterprises. Has its own product research and development center and production base, in the country has a number of offices and agents. Wekoda's core competitiveness is to achieve seamless cooperation between product development and product application, motion control customization experts, in-depth solution to industrial automation control pain points, so that equipment operation more stable and efficient.



专业化
SPECIALIZATION



个性化
INDIVIDUATION



简单化
SIMPLIFY



适合化
ADAPTATION

SINCE2004

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伺服系统⇌运动控制整案定制专家

SERVO SYSTEM ⇌ MOTION CONTROL
ENTIRE CASE CUSTOMIZATION EXPERT

伺服驱动器 SERVO DRIVER



多种通信可选
Multiple communication options are available

EtherCAT
CANopen
PROFINET
Modbus

运动控制器 MOTION CONTROLLER



伺服电机 SERVOMOTOR



产品特点 PRODUCT CHARACTERISTICS

高响应 High response

驱动器电流环响应时间最快62.5us
Driver current loop response time is up to 62.5us

驱动器位置环计算周期时间为125us
The cycle time of driver position loop is 125us

速度环带宽3KHz
The speed loop bandwidth is 3KHz

功率段齐全 Complete power range

0.1KW-160kw
具备多种专型驱动器
0.4KW-160kw,
with a variety of specialized drivers

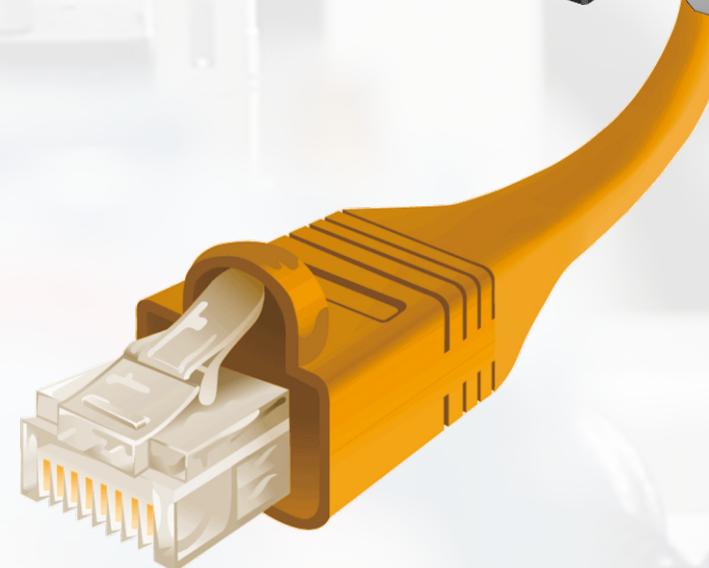
稳定高效 Stable and efficient

配线方便简单
Wiring is convenient and simple

参数匹配快捷
Fast parameter matching

增益调整，实时生效
Gain adjustment takes effect in real time

多种功能端口定义，适用于多个应用场合
Multi-function port definition applicable to multiple applications



伺服电机简介

INTRODUCTION OF SERVO MOTOR

MH系列伺服电机

MH SERIES SERVO MOTOR

产品简介 PRODUCT INTRODUCTION

Mh中低惯量伺服电机是交流永磁同步伺服电机，具有优异的特性，为客户的工业机器人和高端智能装备提供可靠的保障、业界一流的磁路设计与仿真。实现高转矩密度、非常低的齿槽转矩和高过载能力。紧凑的结构适用于各类对安装尺寸要求较高的场合。

可定制化的绕组设计。额定转速最高可达10000rpm，MH伺服电机提供200多种标准绕组设计，并可根据用户的需求定制化绕组速度，满足各类苛刻的应用需求。

MH medium and low inertia servo motor is AC permanent magnet synchronous servo motor, with the excellent characteristics, to provide reliable guarantee for customers' industrial robots and high-end intelligent equipment, industry first-class magnetic circuit design and simulation. Achieve high torque density, very low slot torque and high overload capacity. The compact structure is suitable for all kinds of applications requiring higher installation size.

Customizable winding design. The rated speed can reach up to 10,000 RPM. MH servomotor offers more than 200 standard winding designs, and can customize the winding speed according to users' requirements to meet all kinds of demanding application requirements.

功率等级覆盖 / Power class coverage
0.1~80kW

额定转速 / Rated speed
1000rpm-10000rpm

最高转速 / Maximum speed
2000-8000R

防护等级 / Protection class
IP54-IP65可选防护等级
IP54-IP65 Specifies the protection level

编码器反馈信号 / Encoder feedback signal
多摩川、尼康电池多圈、BISS-C机械多圈编码器、旋转变压器
Tama Chuan, Nikon battery multiturn, BISS-C mechanical multiturn encoder, rotary transformer

工艺材质 / Process material
全自动绕线工艺、绕组灌胶工艺、绝缘等级180（H）、高牌号磁钢,高剩磁、壳体材料高硬度6061-T6、轴承只接受 NSK日本品、自动贴磁钢 高精度定位整体充磁。
Automatic winding process, winding glue filling process, insulation level 180 (H), high grade magnetic steel, high remanence, shell material high hardness 6061-T6, bearing only accept NSK Japanese products, automatic paste magnetic steel high-precision positioning of the overall magnetization.

ME系列伺服电机

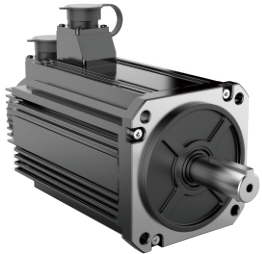
ME SERIES SERVO MOTOR

功率等级覆盖 / Power class coverage
0.1KW-7.5KW

额定转速 / Rated speed
1000rpm-6000rpm

最高转速 / Maximum speed
6000rpm-8000rpm

编码器反馈信号 / Encoder feedback signal
增量式/省线式光电编码器、17位/23位/24位绝对值光电编码器、旋转变压器、磁编码器等
Incremental/provincial photoelectric encoder, 17 bit /23 bit /24 bit absolute value photoelectric encoder, rotary transformer, magnetic encoder, etc



MB系列伺服电机

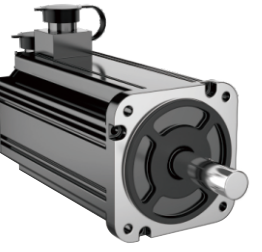
MB SERIES SERVO MOTOR

功率等级覆盖 / Power class coverage
0.1KW-110KW

额定转速 / Rated speed
500rpm-8000rpm

最高转速 / Maximum speed
3000rpm-15000rpm

编码器反馈信号 / Encoder feedback signal
增量式/省线式光电编码器、17位/23位/24位绝对值光电编码器、旋转变压器、磁编码器等
Incremental/provincial photoelectric encoder, 17 bit /23 bit /24 bit absolute value photoelectric encoder, rotary transformer, magnetic encoder, etc



MC系列伺服电机

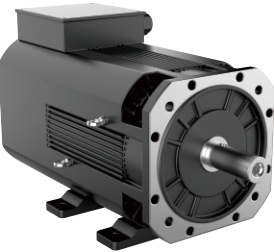
MC SERIES SERVO MOTOR

功率等级覆盖 / Power class coverage
0.75KW-560KW

额定转速 / Rated speed
500rpm-3000rpm

最高转速 / Maximum speed
2000rpm-8000rpm

编码器反馈信号 / Encoder feedback signal
增量式/省线式光电编码器、17位/23位/24位绝对值光电编码器
Incremental/provincial photoelectric encoder, 17 bit /23 bit /24 bit absolute value photoelectric encoder, etc



VC伺服驱动器
VC SERVO DRIVER



产品系列：
经济型、智能型、专用型、总线型、功率等级覆盖0.1KW-160KW,电压等级220V、380V、440V

多种编码器反馈信号：
增量式、省线式光电编码器、17/23/24位绝对值光电编码器、旋转变压器、磁编码器等

多种通信协议：
Modbus CANopen EtherCAT Profinet

- 速度环带宽3KHz，支持高动态响应
- 拥有电压前馈控制、转矩前馈控制、速度前馈控制功能

PRODUCT SERIES:
Economy type, intelligent type, special type, bus type, power grade covering 100W-110KW, voltage grade 220V, 380V, 440V

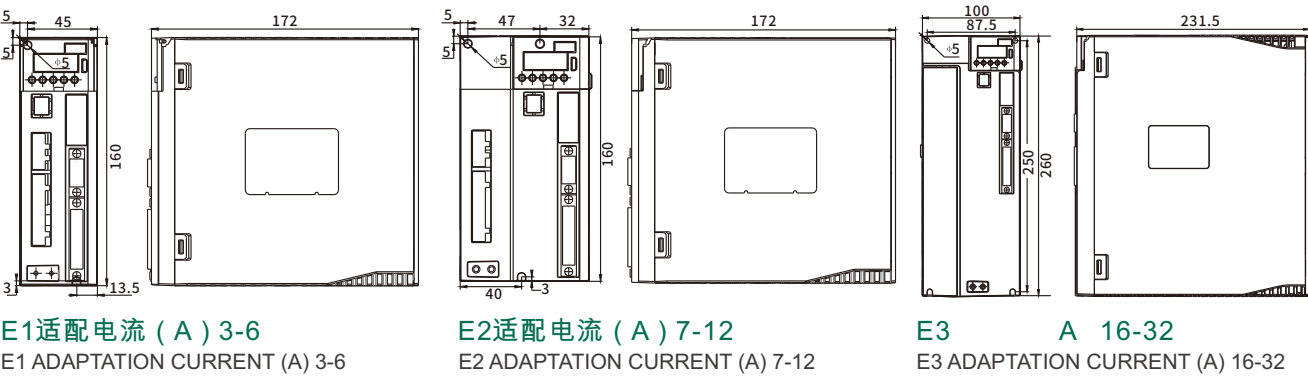
MULTIPLE ENCODER FEEDBACK SIGNALS:
Incremental type, provincial type photoelectric encoder, 17/23/24 bit absolute value photoelectric encoder, rotary transformer, magnetic encoder, etc

MULTIPLE COMMUNICATION PROTOCOLS:
Modbus CANopen EtherCAT Profinet

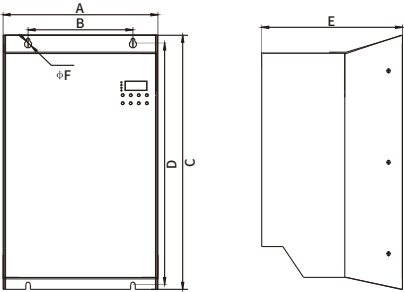
- The speed loop bandwidth is 3KHz and supports high dynamic response
- With voltage feedforward control, torque feedforward control, speed feedforward control functions

驱动器安装尺寸
DRIVER MOUNTING DIMENSIONS

E安装尺寸图 (单位:mm)
E INSTALLATION DIMENSION DIAGRAM



38A以上安装尺寸图 (单位:mm)
Above 38A INSTALLATION DIMENSION DIAGRAM



38A安装尺寸图对照表
38A Installation dimension drawing comparison table

电流 (A)	38-45	60	75-90	110-170
A	220	226	262	305
B	149	150	160	160
C	363	439	499	605
D	349	428	488	594
E	200	250	251	236
F	5.5	6.5	6.5	6.5

电机命名规则
NOMENCLATURE OF MOTOR

1 2 6 F M H - L 0 0 7 1 5 E 3 3 F 1 - M *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

1.正方形法兰边长尺寸 (mm)
Square flange side length (mm)

2.冷却方式 Cooling mode

记号 Mark	冷却方式 Cooling mode
F	风冷 Air cooling
缺省 Default	自然冷 Natural cooling

3.产品系列 Product series

记号 Mark	ME	MB	ME1	MD	MH
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4.转动惯量 Moment of inertia

记号 Mark	惯量 Inertia
L	低惯量 Low inertia
M	中惯量 Medium inertia
H	高惯量 High inertia

5.额定功率 Rated power

记号 Mark	额定功率 Rated power
R40	0.4KW
1R5	1.5KW
003	3KW
7R5	7.5KW
020	20KW

6.额定转速 Rated speed

记号 Mark	额定转速 Rated revolution
10	1000rpm
15	1500rpm
20	2000rpm
25	2500rpm
30	3000rpm

7.安装方式 Installation mode

记号 Mark	安装方式 Installation mode
A	IMB5
D	IMB3
E	IMB35

8.电压等级 Voltage class

记号 Mark	电压等级 Voltage class
23	三相220V Three-phase 220V
33	三相380V Three-phase 380V
43	三相440V Three-phase 440V

9.抱闸与油封 Lock brake and oil seal

记号 Mark	抱闸 Lock brake
F	无抱闸有油封 No lock brake with oil seal
B	内置抱闸有油封 Built-in lock with oil seal
A	无抱闸无油封 No lock and no oil seal
C	有抱闸无油封 There is no oil seal with lock

10.轴连接方式 Shaft connection mode

记号 Mark	额定转数 Rated revolution
缺省 Default	带键螺纹孔 Hole with key thread
1	光轴 Optical axis

11.编码器类型 Encoder type

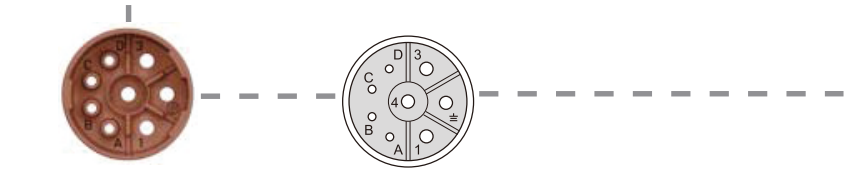
记号 Mark	编码器信号 Encoder signal
M	增量式光编 Incremental optical knitting
N	省线式光编 Cut-wire optical knitting
X	旋变编码器 Rotary encoder
B	23位多圈绝对值光编 23-bit multiloop absolute value optical knitting
C1A	17位单圈绝对值磁编 17-bit single-turn absolute value magnetic knitting
C2A	17位多圈绝对值磁编 17-bit multiturn absolute value magnetic knitting
S	24位多圈绝对值光编 24-bit multiturn absolute value optical knitting
D1	BISS-C编码器 BISS-C encoder

12.厂内标识 In-plant identification

记号 Mark	M	LA	Z	D	U
	Q	N	I		

连接器引脚定义—— M23动力插座, 8-Pin

Connector pin definition -- M23 power socket, 8-Pin

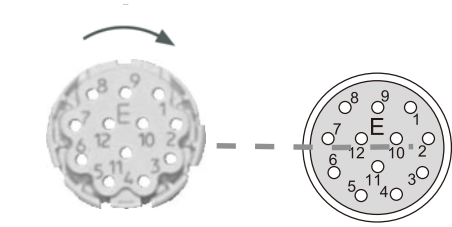


M23动力插座, 8-Pin
M23 Power Socket, 8-Pin

引脚符号 Pin symbol	引脚定义 Pin definition	备注 Remarks
1	U	
3	V	
4	W	
≡	PE	
A	Brake+	
B	Brake-	
C	Reserve	
D	Reserve	

连接器引脚定义—— M23反馈插座, 12-Pin

Connector pin definition -- M23 feedback socket, 12-Pin



M23反馈插座, 12-Pin
M23 Feedback Socket, 12-Pin

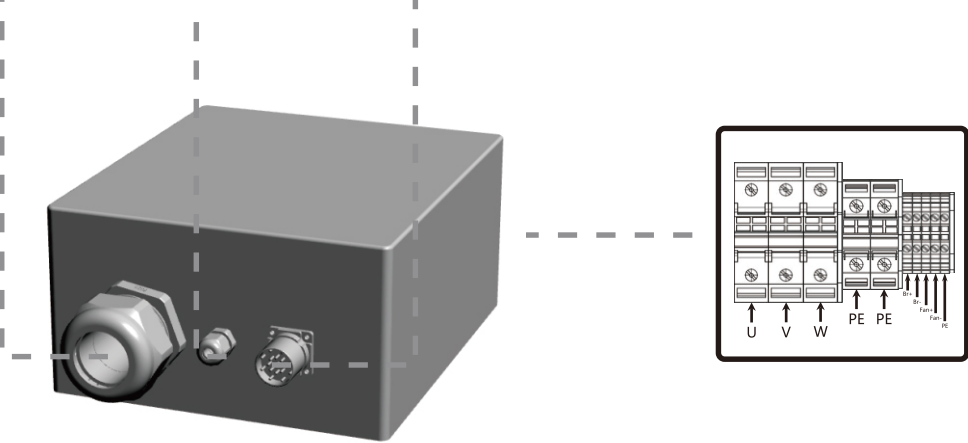
引脚符号 Pin symbol	引脚定义 Pin definition	引脚定义 Pin definition	线色 Line color
BISS		T-format	
1	5V		
2	0V	BAT-	白White
3	Data+	BAT+	灰Grey
4	Data-	SD-	黄Yellow
5	Clock+	GND	黑+蓝 Black+Blue
6	Clock-	SD+	绿Green
7	5V*	5V	红+棕 Red+Brown
8	0V*		
9	Ts+		
10	Ts-		
11	Reserve		
12	Reserve		

M23反馈插座
M23 feedback socket

风扇电缆入口
Fan cable inlet

动力电缆入口
Power cable inlet

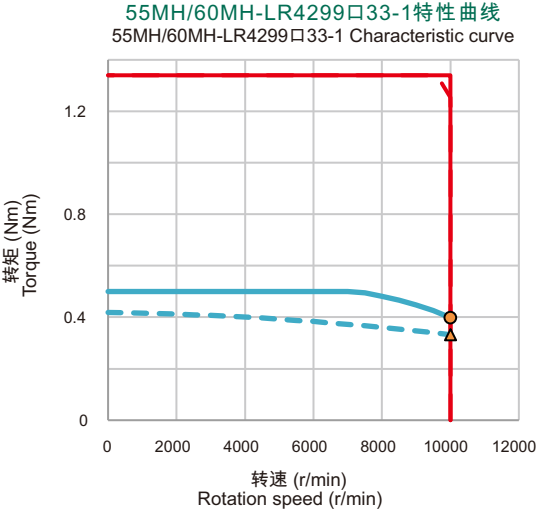
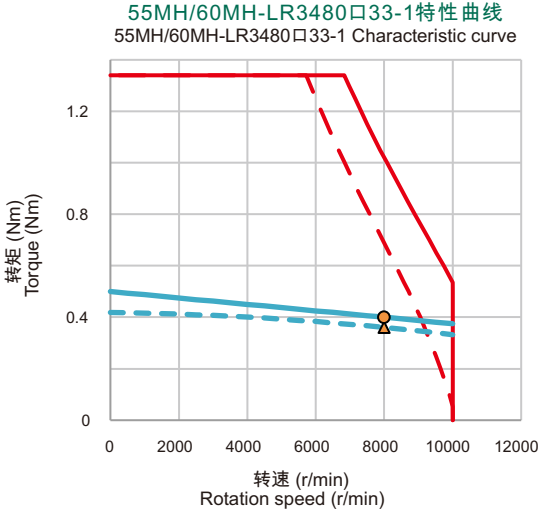
制动器电缆入口
Brake cable inlet



55MH-L-1/60MH-L-1技术数据-380VAC

55MH-L-1/60MH-L-1 Technical Data -380VAC

电机型号 Motor type		55MH/ 60MH-LR 3480口33-1	55MH/ 60MH-LR 4299口33-1		
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value	
选型数据 Selection Data					
工作电压 Operating Voltage		U	V AC	380 ... 480	
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	0.5	
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	0.94	1.44
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	0.42	
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	0.79	1.21
额定工作点 (100K) Rated operating point (100K)					
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.34	0.42
额定转速 Speed		n _N	r/min	8000	10000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	0.40	0.40
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	0.76	1.15
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	357	288
额定工作点 (60K) Rated operating point (60K)					
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.30	0.35
额定转速 Speed		n _N	r/min	8000	10000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.36	0.33
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.68	0.95
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	352	282
极限数据 Limit data					
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000	
峰值转矩 Peak torque		M _{max}	Nm	1.34	
峰值电流 Peak current		I _{max}	Arms	2.7	4.1
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	5700	9600
电机数据 Motor data					
极数 No. of poles		Poles		8	
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.53	0.35
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	38	25
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	29.6	12.2
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	37.3	16.1
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.09(55MH-L-1)/0.11(60MH-L-1)	
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.14(55MH-L-1)/0.16(60MH-L-1)	
电机重量 (无制动器) Weight(No brake)		m	kg	1.0	
电机重量 (带制动器) Weight(With brake)		m _b	kg	1.4	
制动器数据 Brake data					
制动器类型 Type				永磁式 Permanent magnet type	
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0	
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	1.0	
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%	
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.42 ± 7%	
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	10 ± 7%	
连接器类型 Connector Type					
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)	
适配驱动器 Matcheddriver					
适配驱动器 Matcheddriver				VC***-3R833-E	



图例
KEY

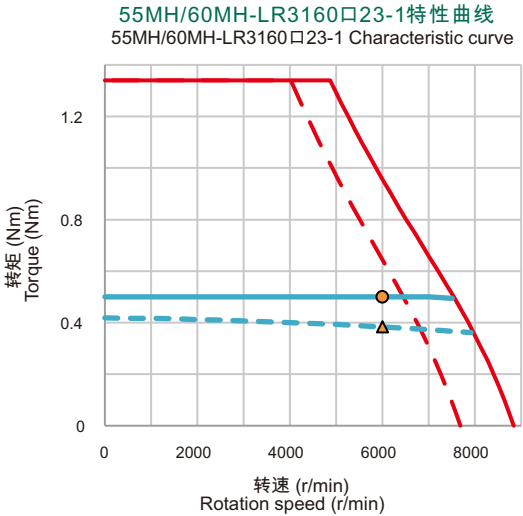
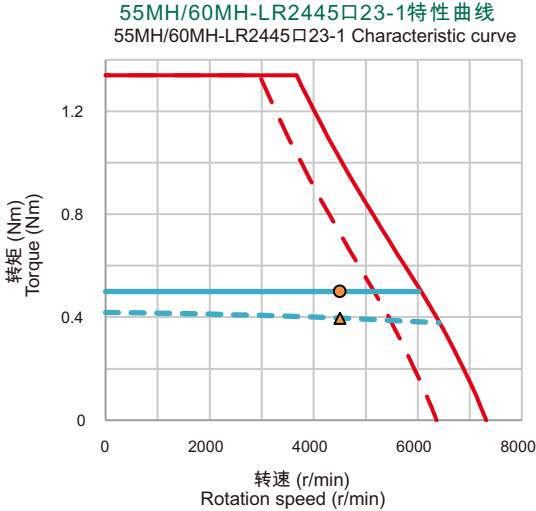
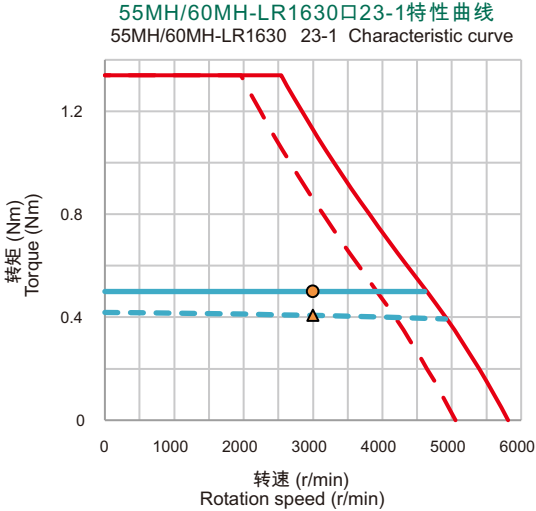
--- M_{max} @ 400VAC
— M_{max} @ 460VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

55MH-L-1/60MH-L-1技术数据-220VAC

55MH-L-1/60MH-L- Technical Data - 220VAC

电机型号 Motor type			55MH/ 60MH-LR 1630 口 23-1	55MH/ 60MH-LR 2445 口 23-1	55MH/ 60MH-LR 3160 口 23-1
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value	
选型数据 Selection Data					
工作电压 Operating Voltage		U	V AC	200 ... 250	
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	0.5	
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	0.94	1.19 1.44
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	0.42	
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	0.79	1.00 1.21
额定工作点 (100K) Rated operating point (100K)					
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.16	0.24 0.31
额定转速 Speed		n _N	r/min	3000	4500 6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	0.50	0.50 0.50
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	0.94	1.19 1.44
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	162	178 188
额定工作点 (60K) Rated operating point (60K)					
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.13	0.19 0.24
额定转速 Speed		n _N	r/min	3000	4500 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.41	0.40 0.38
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.77	0.95 1.09
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	153	170 179
极限数据 Limit data					
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000	
峰值扭矩 Peak torque		M _{max}	Nm	1.34	
峰值电流 Peak current		I _{max}	Arms	2.7	3.4 4.1
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{max}	r/min	2500	3650 4850
电机数据 Motor data					
极数 No. of poles		Poles		8	
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.53	0.42 0.35
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	38	30 25
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	29.6	18.7 12.2
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	37.3	23.5 16.1
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.09(55MH-L-1)/0.11(60MH-L-1)	
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.14(55MH-L-1)/0.16(60MH-L-1)	
电机重量 (无制动器) Weight(No brake)		m	kg	1.0	
电机重量 (带制动器) Weight(With brake)		m _b	kg	1.4	
制动器数据 Brake data					
制动器类型 Type			永磁式 Permanent magnet type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0	
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	1.0	
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%	
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.42 ± 7%	
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	10 ± 7%	
连接器类型 Connector Type					
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)	
适配驱动器 Matcheddriver					
适配驱动器 Matcheddriver				VC***-00323-E	



图例
KEY

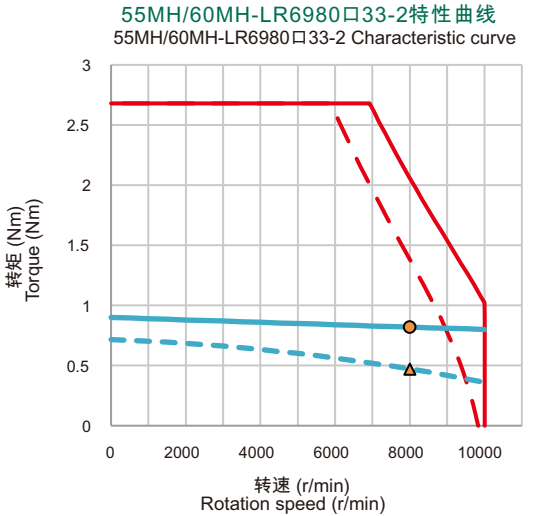
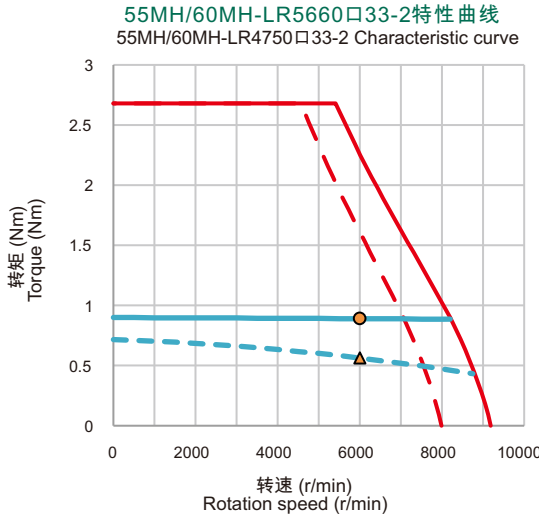
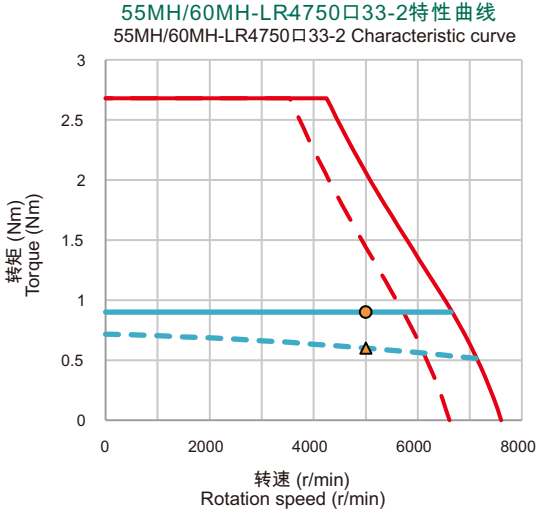
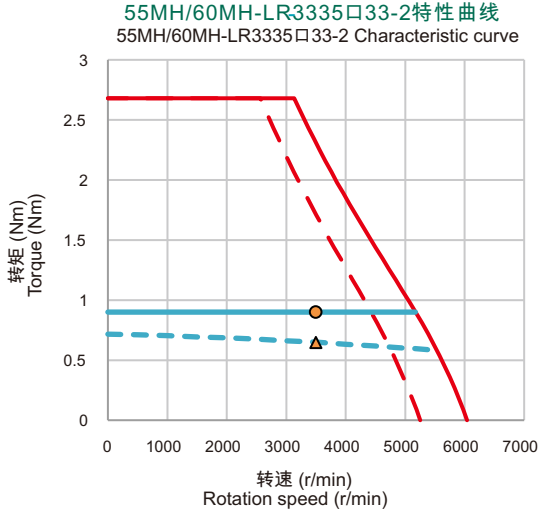
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

55MH-L-2/60MH-L-2技术数据-380VAC

55MH-L-2/60MH-L-2 Technical Data -380VAC

电机型号 Motor type			55MH/6 0MH-LR 3335口33-2	55MH/ 60MH-LR 4750口33-2	55MH/ 60MH-LR 5660口33-2	55MH/ 60MH-LR 6980口33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	0.9			
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	0.88	1.11	1.34	1.65
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	0.72			
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	0.71	0.89	1.07	1.32
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.33	0.47	0.56	0.69
额定转速 Speed		n _N	r/min	3500	5000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	0.90	0.90	0.89	0.82
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	0.88	1.11	1.33	1.50
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	366	354	344	360
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.24	0.31	0.35	0.39
额定转速 Speed		n _N	r/min	3500	5000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.65	0.60	0.56	0.47
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.64	0.74	0.83	0.86
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	346	334	325	342
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值转矩 Peak torque		M _{max}	Nm	2.68			
峰值电流 Peak current		I _{max}	Arms	2.8	3.5	4.3	5.2
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	2550	3500	4550	5850
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.02	0.81	0.67	0.55
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	72	57	48	39
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	39.6	25.0	16.4	10.6
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	73.5	46.4	31.8	21.0
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.17(55MH-L-2)/0.18(60MH-L-2)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.22(55MH-L-2)/0.23(60MH-L-2)			
电机重量 (无制动器) Weight(No brake)		m	kg	1.4			
电机重量 (带制动器) Weight(With brake)		m _b	kg	1.7			
制动器数据 Brake data							
制动器类型 Type			永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	1.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.42 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	10 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-3R833-E			



图例
KEY

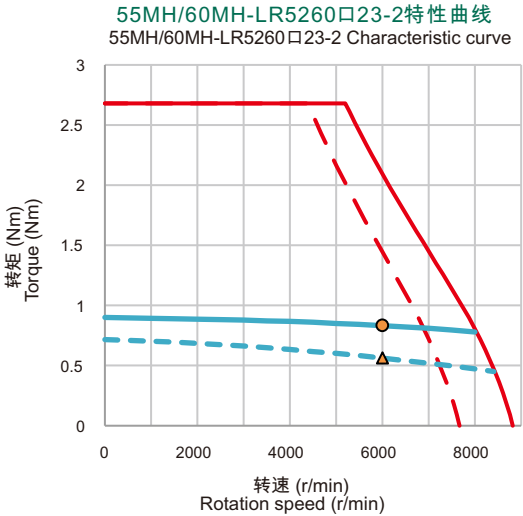
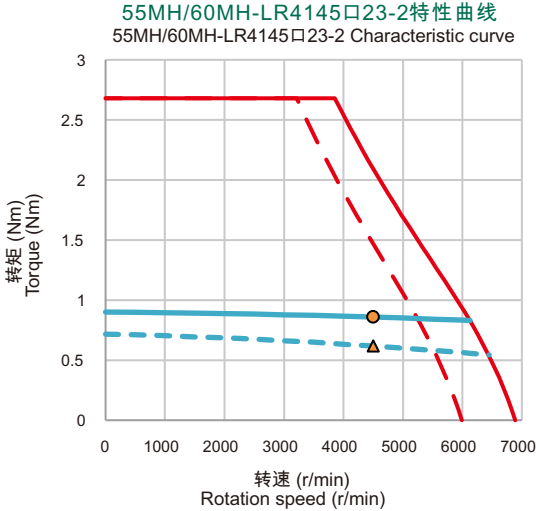
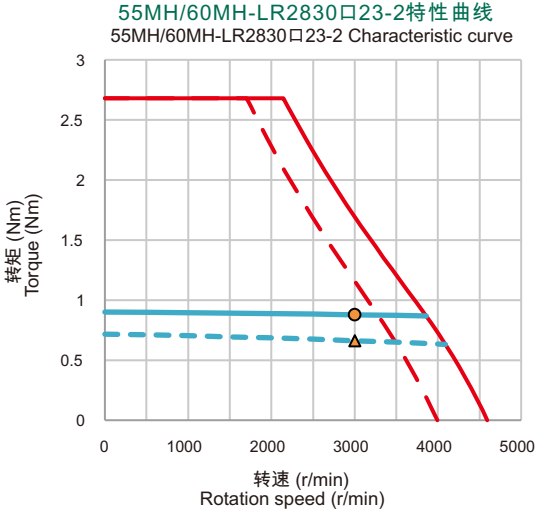
--- M_{max} @ 400VAC
— M_{max} @ 460VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

55MH-L-2/60MH-L-2技术数据-220VAC

55MH-L-2/60MH-L-2 Technical Data -220VAC

电机型号 Motor type		55MH/ 60MH-LR 2830 口 23-2	55MH/ 60MH-LR 4145 口 23-2	55MH/ 60MH-LR 5260 口 23-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value	
选型数据 Selection Data					
工作电压 Operating Voltage	U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)	M _{b-100K}	Nm	0.9		
堵转电流 (100K) Locked rotor current (100K)	I _{b-100K}	Arms	1.34	2.01	2.58
堵转转矩 (60K) locked torque (60K)	M _{b-60K}	Nm	0.72		
堵转电流 (60K) Locked rotor current (60K)	I _{b-60K}	Arms	1.07	1.61	2.06
额定工作点 (100K) Rated operating point (100K)					
额定功率 (100K) Power (100K)	P _{N-100K}	kW	0.28	0.41	0.52
额定转速 Speed	n _N	r/min	3000	4500	6000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	0.88	0.86	0.83
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	1.31	1.92	2.38
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	186	174	177
额定工作点 (60K) Rated operating point (60K)					
额定功率 (60K) Power (60K)	P _{N-60K}	kW	0.13	0.19	0.24
额定转速 Speed	n _N	r/min	3000	4500	6000
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	0.41	0.40	0.38
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	0.66	0.62	0.56
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	176	167	169
极限数据 Limit data					
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	10000		
峰值转矩 Peak torque	M _{max}	Nm	2.68		
峰值电流 Peak current	I _{max}	Arms	4.3	6.4	8.2
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)	n _{max}	r/min	2100	3850	5200
电机数据 Motor data					
极数 No. of poles	Poles		8		
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	0.67	0.45	0.35
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	48	32	25
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	16.4	6.87	4.26
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	31.8	14.1	8.63
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁻⁴ kgm ²	0.17((55MH-L-2)/0.18(60MH-L-2)		
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁻⁴ kgm ²	0.22((55MH-L-2)/0.23(60MH-L-2)		
电机重量 (无制动器) Weight(No brake)	m	kg	1.4		
电机重量 (带制动器) Weight(With brake)	m _b	kg	1.7		
制动器数据 Brake data					
制动器类型 Type			永磁式 Permanent magnet type		
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	0		
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	1.0		
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20 °)	I _{br}	A	0.42 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	10 ± 7%		
连接器类型 Connector Type					
动力连接器类型 Power connector			M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector			M15 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver					
适配驱动器 Matcheddriver			VC***-00323-E		



图例
KEY

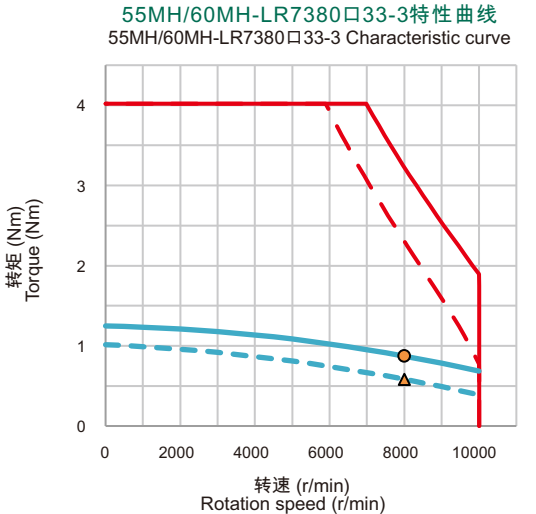
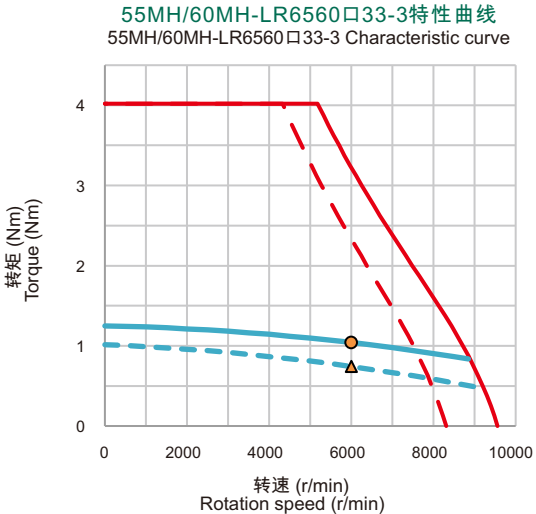
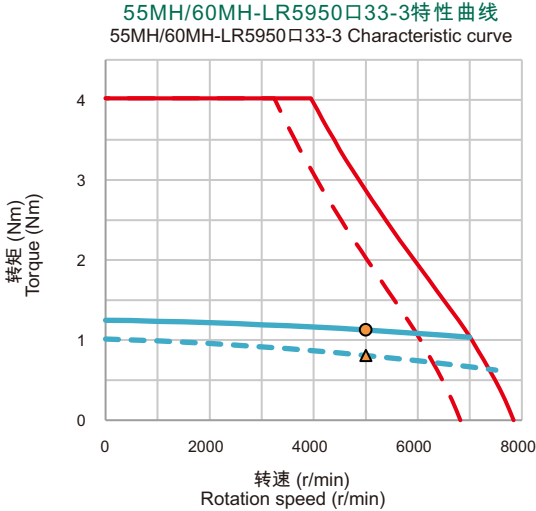
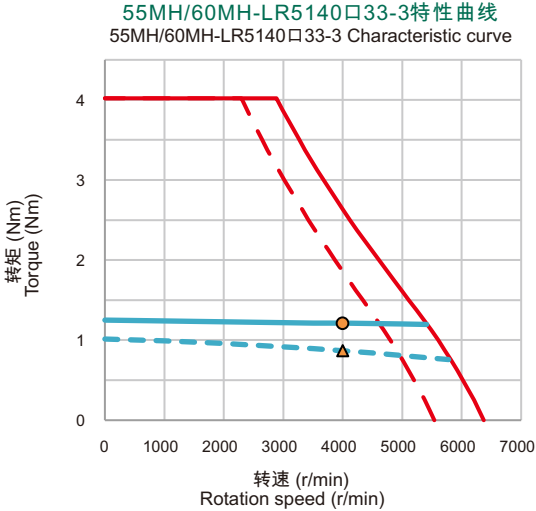
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

55MH-L-3/60MH-L-3技术数据-380VAC

55MH-L-3/60MH-L-3 Technical data -380VAC

电机型号 Motor type			55MH/ 60MH-LR 5140口33-3	55MH/ 60MH-LR 5950口33-3	55MH/ 60MH-LR 6560口33-3	55MH/ 60MH-LR 7380口33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	1.25			
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	1.29	1.59	1.94	2.48
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	1.01			
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	1.04	1.28	1.57	2.00
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.51	0.59	0.65	0.73
额定转速 Speed		n _N	r/min	4000	5000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.21	1.13	1.04	0.87
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.25	1.44	1.61	1.73
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	354	344	327	327
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.36	0.42	0.46	0.49
额定转速 Speed		n _N	r/min	4000	5000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.87	0.81	0.74	0.58
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.90	1.03	1.15	1.15
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	334	328	314	317
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值转矩 Peak torque		M _{max}	Nm	4.02			
峰值电流 Peak current		I _{max}	Arms	4.4	5.5	6.6	8.5
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	2300	3200	4300	5900
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.97	0.79	0.65	0.50
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	69	56	46	36
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	31.8	20.5	13.3	8.26
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	47.0	31.0	20.9	12.8
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.25(55MH-L-3)/0.26(60MH-L-3)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.30(55MH-L-3)/0.31(60MH-L-3)			
电机重量 (无制动器) Weight(No brake)		m	kg	1.7			
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.0			
制动器数据 Brake data							
制动器类型 Type				永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	1.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.42 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	10 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-3R833-E			



图例
KEY

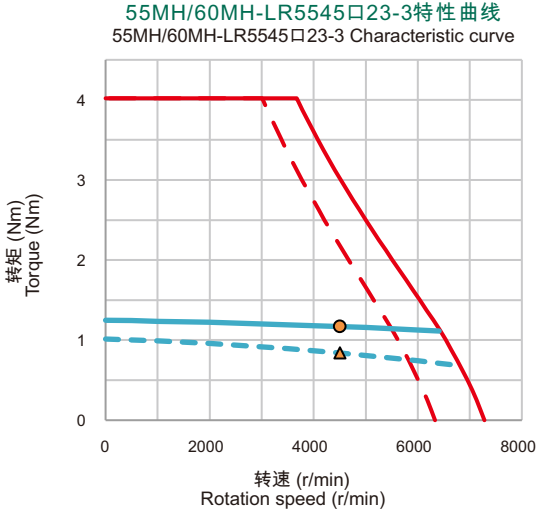
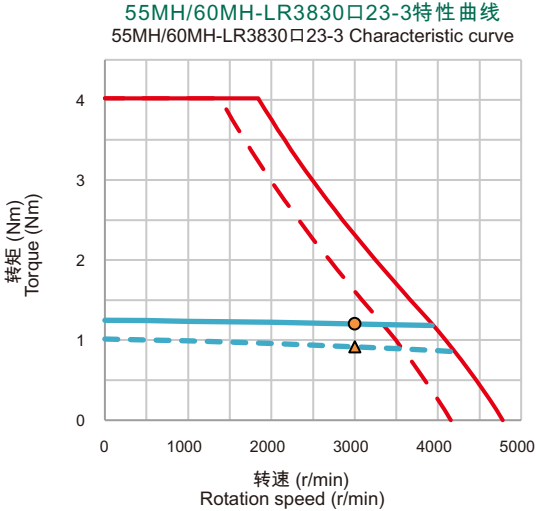
--- M_{max} @ 400VAC
— M_{max} @ 460VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

55MH-L-3/60MH-L-3技术数据-220VAC

55MH-L-3/60MH-L-3 Technical Data -220VAC

电机型号 Motor type		55MH/ 60MH-LR 3830口23-3	55MH/ 60MH-LR 5545口23-3		
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value	
选型数据 Selection Data					
工作电压 Operating Voltage		U	V AC	200 ... 250	
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	1.25	
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	1.94	2.95
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	1.01	
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	1.57	2.39
额定工作点 (100K) Rated operating point (100K)					
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.38	0.55
额定转速 Speed		n _N	r/min	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.20	1.17
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.86	2.76
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	183	168
额定工作点 (60K) Rated operating point (60K)					
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.29	0.40
额定转速 Speed		n _N	r/min	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.92	0.84
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.66	0.56
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	173	160
极限数据 Limit data					
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000	
峰值转矩 Peak torque		M _{max}	Nm	4.02	
峰值电流 Peak current		I _{max}	Arms	6.6	10.1
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{max}	r/min	1800	3650
电机数据 Motor data					
极数 No. of poles		Poles		8	
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.65	0.42
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	46	30
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	13.3	5.50
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	20.9	9.00
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.25(55MH-L-3)/0.26(60MH-L-3)	
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.30(55MH-L-3)/0.31(60MH-L-3)	
电机重量 (无制动器) Weight(No brake)		m	kg	1.7	
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.0	
制动器数据 Brake data					
制动器类型 Type				永磁式 Permanent magnet type	
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0	
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	1.0	
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%	
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.42 ± 7%	
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	10 ± 7%	
连接器类型 Connector Type					
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)	
适配驱动器 Matcheddriver					
适配驱动器 Matcheddriver				VC***-00323-E	

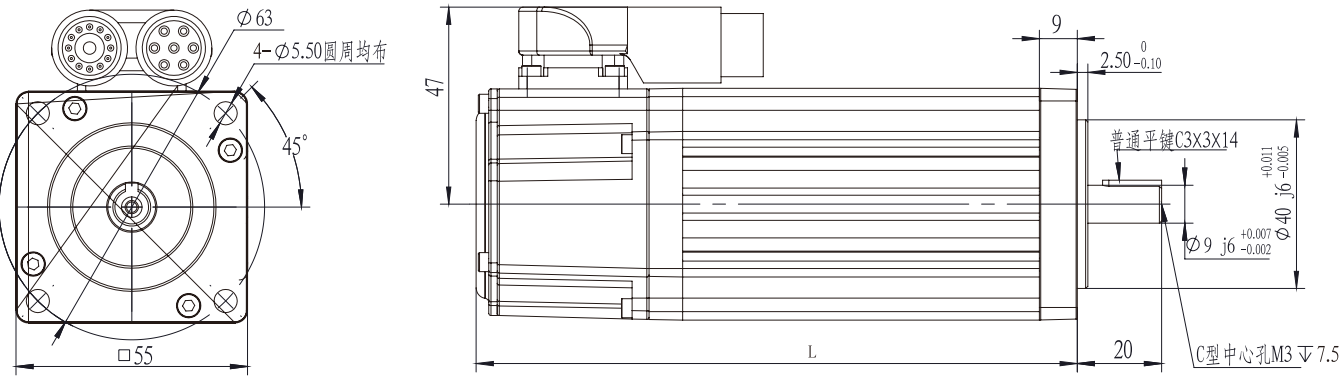


图例
KEY

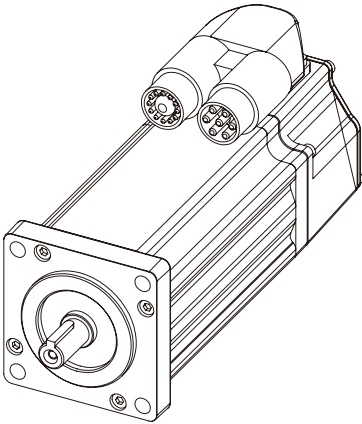
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

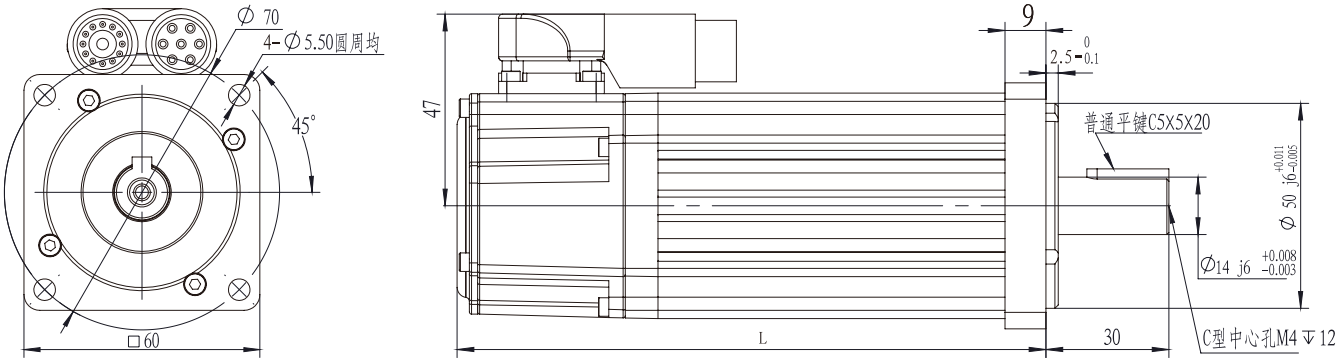
55MH-L-口机械尺寸
55MH-L-口Mechanical dimensions



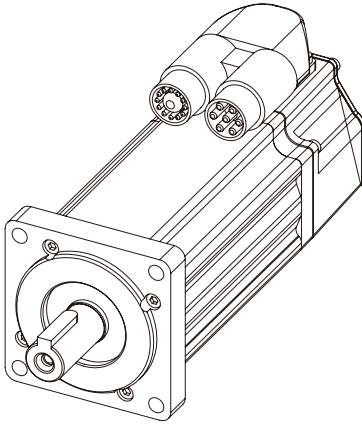
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
55MH-L-1	117.6	145
55MH-L-2	142.6	170
55MH-L-3	167.6	195



60MH-L-口机械尺寸
60MH-L-口Mechanical dimensions



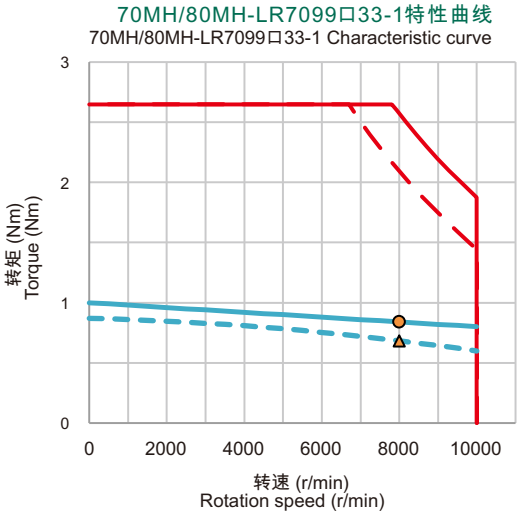
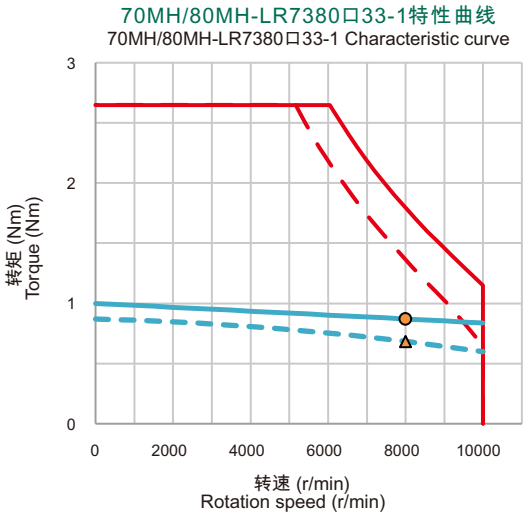
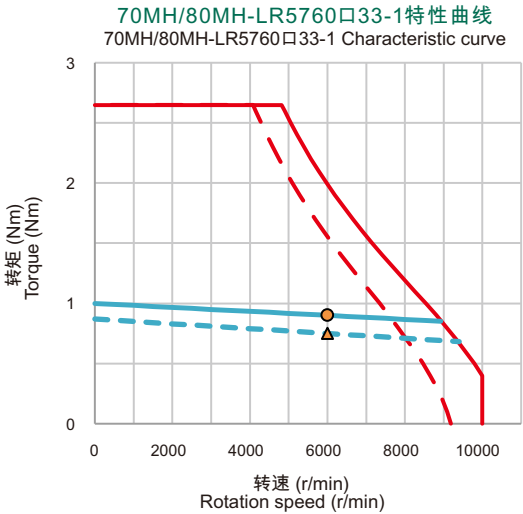
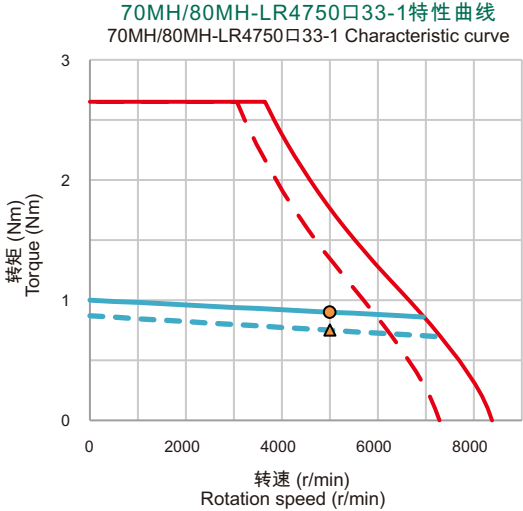
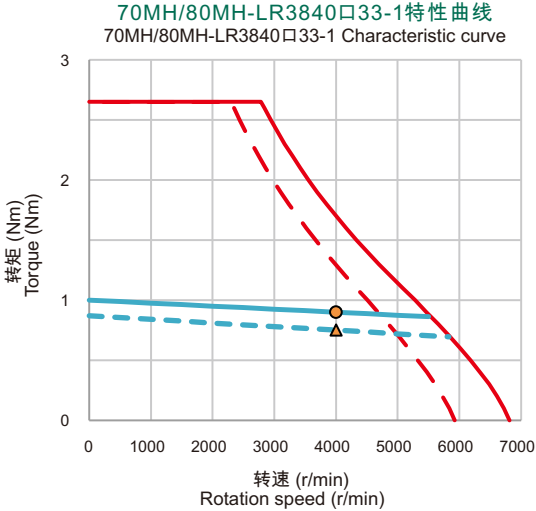
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
60MH-L-1	117.6	145
60MH-L-2	142.6	170
60MH-L-3	167.6	195



70MH-L-1/80MH-L-1技术数据-380VAC

70MH-L-1/80MH-L-1 Technical data -380VAC

电机型号 Motor type			70MH/ 80MH-LR 3840口33-1	70MH/ 80MH-LR 4750口33-1	70MH/ 80MH-LR 5760口33-1	70MH/ 80MH-LR 7380口33-1	70MH/ 80MH-LR 7099口33-1
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage	U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)	M _{0-100K}	Nm	1.0				
堵转电流 (100K) Locked rotor current (100K)	I _{0-100K}	Arms	1.10	1.36	1.71	2.06	2.63
堵转转矩 (60K) locked torque (60K)	M _{0-60K}	Nm	0.87				
堵转电流 (60K) Locked rotor current (60K)	I _{0-60K}	Arms	0.96	1.18	1.49	1.79	2.28
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)	P _{N-100K}	kW	0.38	0.47	0.57	0.73	0.70
额定转速 Speed	n _N	r/min	4000	5000	6000	8000	8000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	0.90	0.90	0.90	0.87	0.84
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	0.99	1.22	1.54	1.79	2.21
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	349	344	322	343	269
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)	P _{N-60K}	kW	0.31	0.39	0.47	0.57	0.57
额定转速 Speed	n _N	r/min	4000	5000	6000	8000	8000
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	0.75	0.75	0.75	0.68	0.68
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	0.83	1.02	1.28	1.40	1.79
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	332	329	309	326	258
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	10000				
峰值扭矩 Peak torque	M _{max}	Nm	2.65				
峰值电流 Peak current	I _{max}	Arms	3.1	3.8	4.8	5.9	7.4
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)	n _{max}	r/min	2300	3050	4050	5150	6700
电机数据 Motor data							
极数 No. of poles	Poles		8				
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	0.91	0.74	0.58	0.48	0.38
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	64	52	41	34	27
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	36.4	23.5	18.6	9.68	6.06
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	92.7	61.3	38.6	26.3	16.4
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁴ kgm ²	0.13((70MH-L-1)/0.21(80MH-L-1))				
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁴ kgm ²	0.31((70MH-L-1)/0.39(80MH-L-1))				
电机重量 (无制动器) Weight(No brake)	m	kg	1.5				
电机重量 (带制动器) Weight(With brake)	m _b	kg	2.1				
制动器数据 Brake data							
制动器类型 Type			永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	4.5				
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)	I _{br}	A	0.5 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	12 ± 7%				
连接器类型 Connector Type							
动力连接器类型 Power connector			M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector			M15 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***3R833-E				



图例
KEY

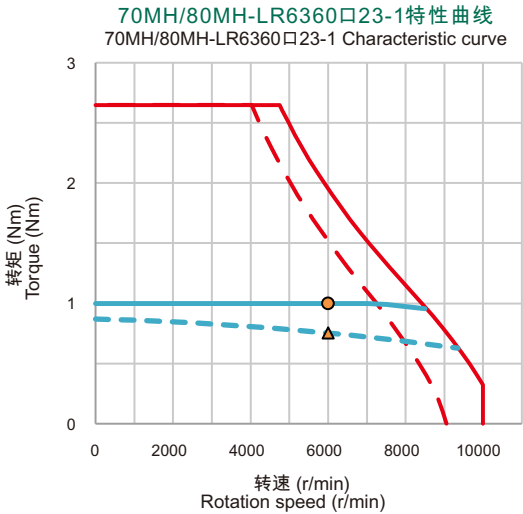
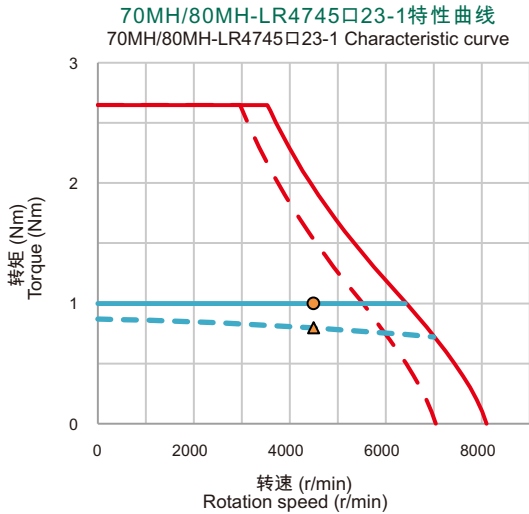
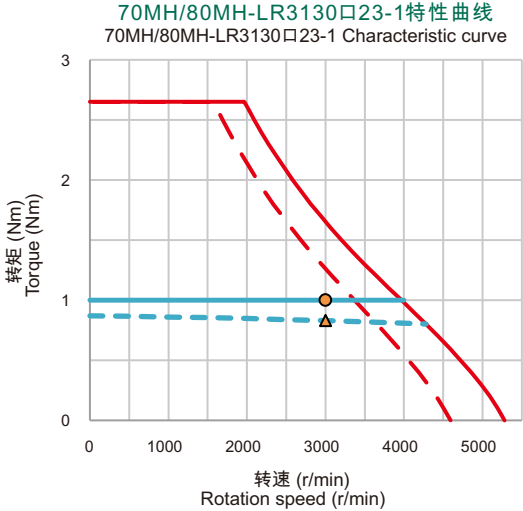
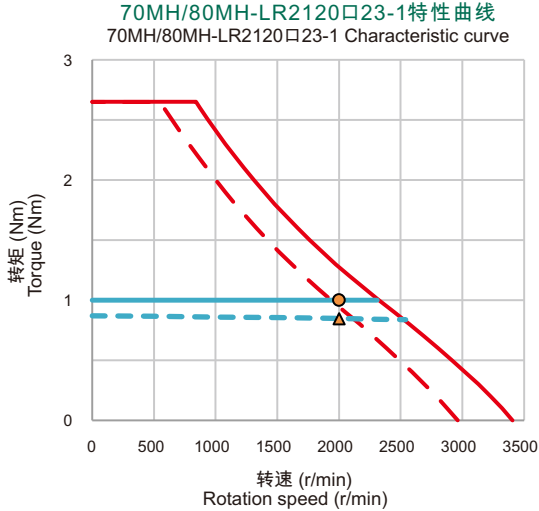
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

70MH-L-1/80MH-L-1技术数据-220VAC

70MH-L-1/80MH-L-1 Technical data -220VAC

电机型号 Motor type			70MH/ 80MH-LR 2120□23-1	70MH/ 80MH-LR 3130□23-1	70MH/ 80MH-LR 4745□23-1	70MH/ 80MH-LR 6360□23-1	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	1.0			
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	1.10	1.71	2.63	3.38
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	0.87			
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	0.96	1.49	2.28	2.94
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.21	0.31	0.47	0.63
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.00	1.00	1.00	1.00
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.10	1.71	2.63	3.38
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	205	181	167	168
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.18	0.26	0.38	0.47
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	0.85	0.83	0.80	0.75
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.94	1.42	2.10	2.53
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	193	171	157	156
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值转矩 Peak torque		M _{max}	Nm	2.65			
峰值电流 Peak current		I _{max}	Arms	3.1	4.8	7.4	9.5
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{max}	r/min	800	1950	3500	4750
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.91	0.58	0.38	0.30
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	64	41	27	21
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	36.4	18.6	6.06	3.74
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	92.7	38.6	16.4	9.92
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.13(70MH-L-1)/0.21(80MH-L-1)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.31(70MH-L-1)/0.39(80MH-L-1)			
电机重量 (无制动器) Weight(No brake)		m	kg	1.5			
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.1			
制动器数据 Brake data							
制动器类型 Type				永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.5 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00323-E			VC***-00623-E



图例
KEY

- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

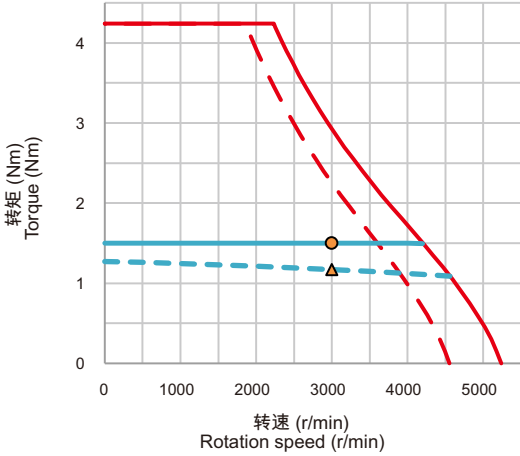
● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-C/80MH-L-C技术数据-380VAC

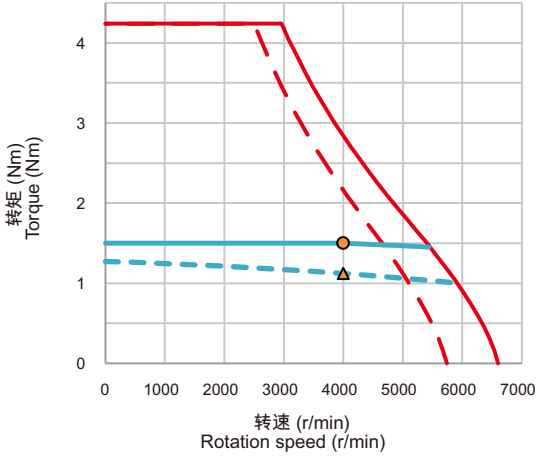
70MH-L-C/80MH-L-C Technical data -380VAC

电机型号 Motor type			70MH/ 80MH-LR 4730口33-C	70MH/ 80MH-LR 6340口33-C	70MH/ 80MH-LR 9060口33-C	70MH/ 80MH-L1R 180口33-C	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{B-100K}	Nm	1.5			
堵转电流 (100K) Locked rotor current (100K)		I _{B-100K}	Arms	1.27	1.61	2.46	3.17
堵转转矩 (60K) locked torque (60K)		M _{B-60K}	Nm	1.27			
堵转电流 (60K) Locked rotor current (60K)		I _{B-60K}	Arms	1.08	1.36	2.08	2.68
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.47	0.63	0.90	1.11
额定转速 Speed		n _N	r/min	3000	4000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.50	1.50	1.43	1.33
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.27	1.61	2.35	2.81
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	340	348	326	328
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.37	0.47	0.63	0.70
额定转速 Speed		n _N	r/min	3000	4000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.17	1.12	1.00	0.84
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	0.99	1.20	1.64	1.77
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	318	325	304	305
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值扭矩 Peak torque		M _{max}	Nm	4.24			
峰值电流 Peak current		I _{max}	Arms	3.8	4.8	7.4	9.5
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	1850	2500	4100	5450
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.18	0.93	0.61	0.47
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	83	66	43	34
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	25.8	16.2	6.65	4.10
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	98.1	61.7	26.2	15.9
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.20(70MH-L-C)/0.28(80MH-L-C)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.38(70MH-L-C)/0.46(80MH-L-C)			
电机重量 (无制动器) Weight(No brake)		m	kg	1.8			
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.4			
制动器数据 Brake data							
制动器类型 Type				永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.5 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-3R833-E			

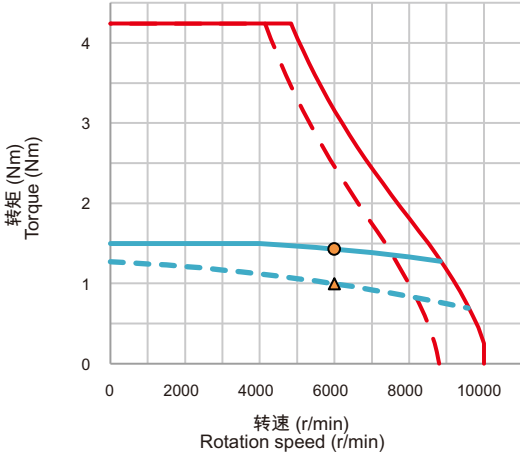
70MH/80MH-LR4730口33-C特性曲线
70MH/80MH-LR4730 口33-C Characteristic curve



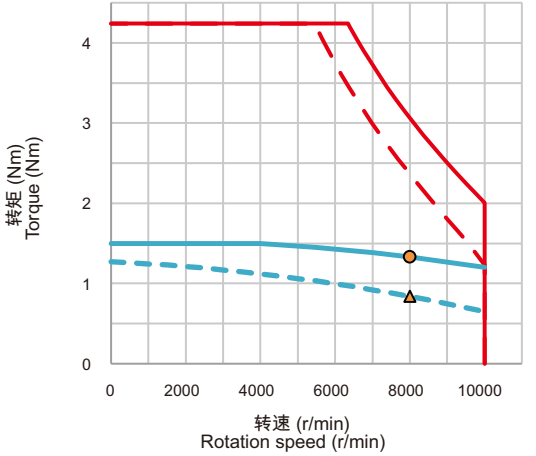
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70MH/80MH-LR6340 口33-C Characteristic curve



70MH/80MH-LR9060口33-C特性曲线
70MH/80MH-LR9060 口33-C Characteristic curve



70MH/80MH-L1R180口33-C特性曲线
70MH/80MH-L1R180 口33-C Characteristic curve



图例
KEY

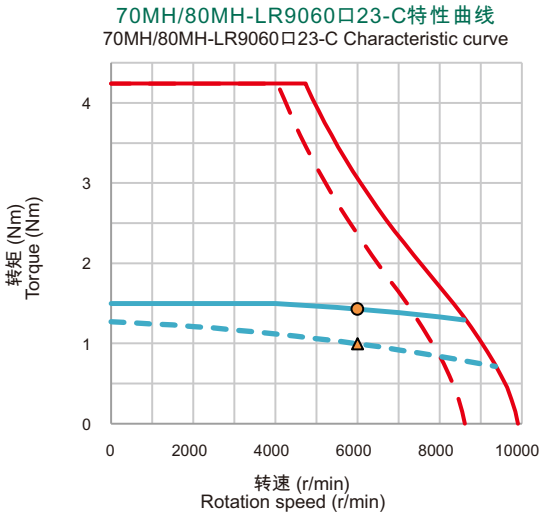
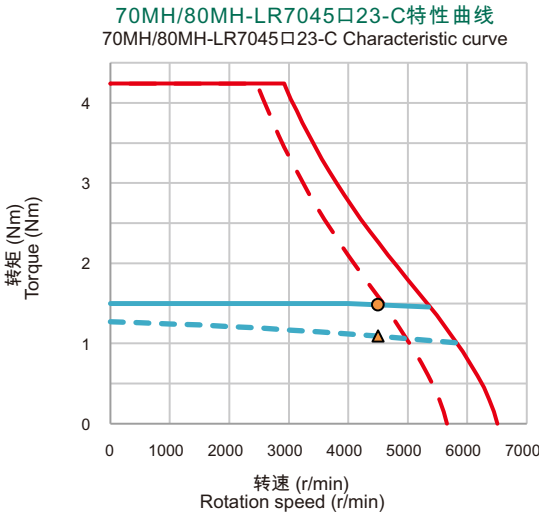
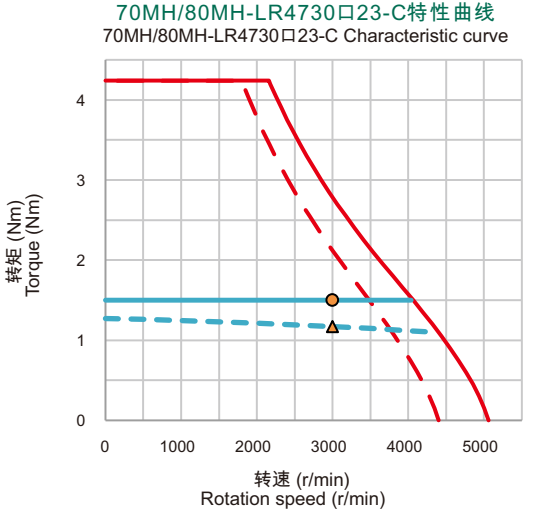
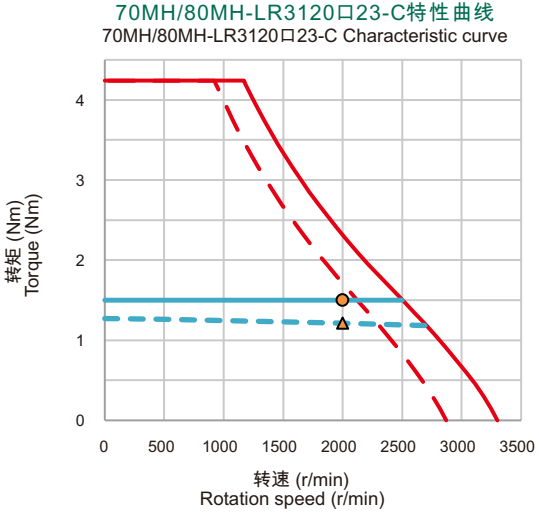
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

70MH-L-C/80MH-L-C技术数据-220VAC

70MH-L-C/80MH-L-C Technical data -220VAC

电机型号 Motor type			70MH/ 80MH-LR 3120□23-C	70MH/ 80MH-LR 4730□23-C	70MH/ 80MH-LR 7045□23-C	70MH/ 80MH-LR 9060□23-C
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	1.5		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	1.61	2.46	3.17 4.82
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	1.27		
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	1.36	2.08	2.68 4.08
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.31	0.47	0.70 0.90
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.50	1.50	1.48 1.43
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.61	2.46	3.12 4.59
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	190	175	196 166
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.25	0.37	0.51 0.63
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.21	1.17	1.09 1.00
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.30	1.92	2.30 3.21
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	178	164	183 155
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000		
峰值扭矩 Peak torque		M _{max}	Nm	4.24		
峰值电流 Peak current		I _{max}	Arms	4.8	7.4	9.5 14.5
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{max}	r/min	1150	2150	2900 4700
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.93	0.61	0.47 0.31
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	66	43	34 22
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	16.2	6.65	4.10 1.69
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	61.7	26.2	15.9 6.85
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.20(70MH-L-C)/0.28(80MH-L-C)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.38(70MH-L-C)/0.46(80MH-L-C)		
电机重量 (无制动器) Weight(No brake)		m	kg	1.8		
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.4		
制动器数据 Brake data						
制动器类型 Type				永磁式 Permanent magnet type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.5 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-00323-E		VC***-00623-E



图例
KEY

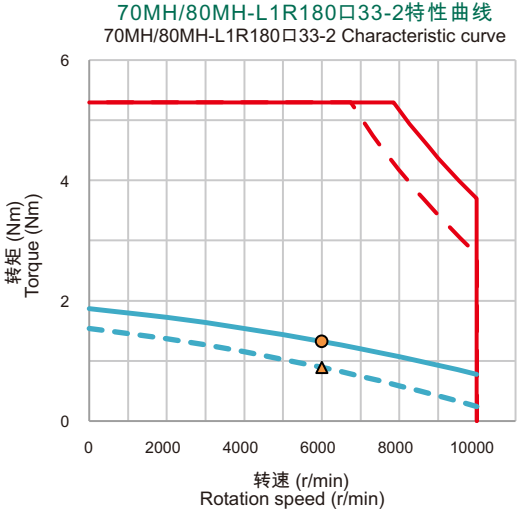
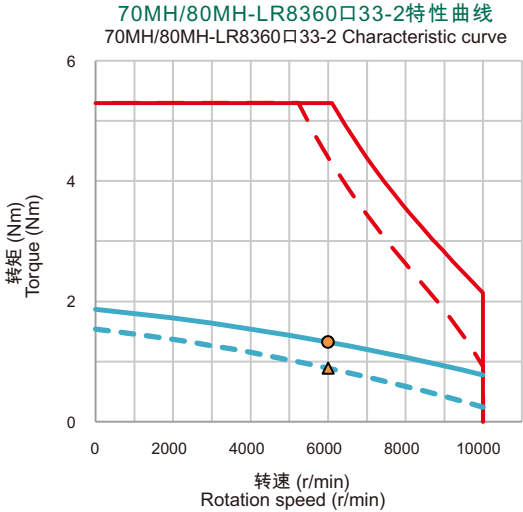
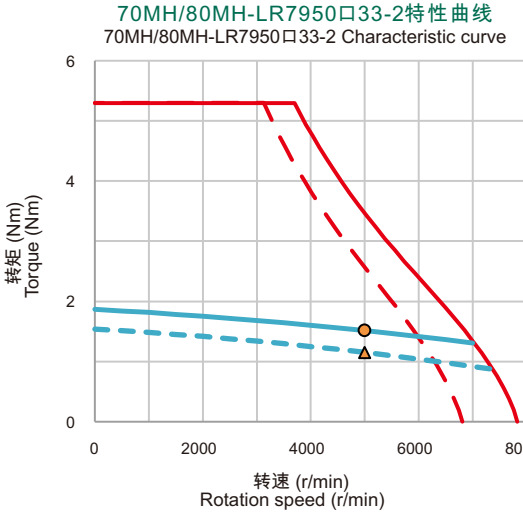
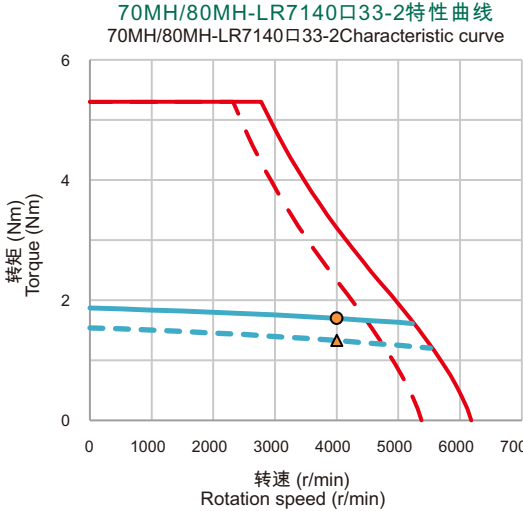
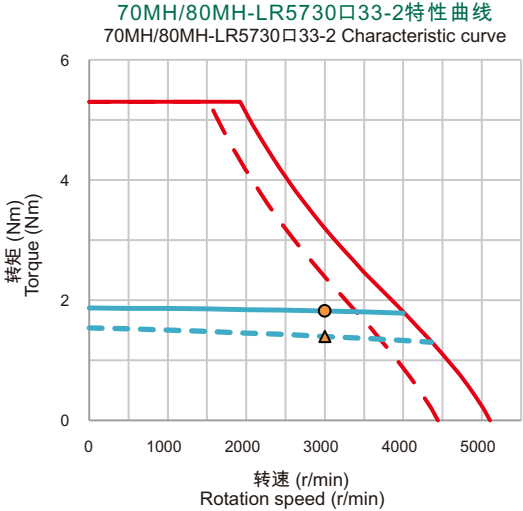
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-2/80MH-L-2技术数据-380VAC

0MH-L-2/80MH-L-2 Technical data -380VAC

电机型号 Motor type			70MH/ 80MH-LR 5730口33-2	70MH/ 80MH-LR 7140口33-2	70MH/ 80MH-LR 7950口33-2	70MH/ 80MH-LR 8360口33-2	70MH/ 80MH-L1R 180口33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	1.9				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	1.58	1.91	2.42	3.75	4.73
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	1.54				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	1.28	1.55	1.96	3.04	3.83
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.57	0.71	0.79	0.83	1.11
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.82	1.69	1.51	1.32	1.32
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.51	1.70	1.92	2.60	3.28
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	349	363	343	255	203
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.44	0.56	0.60	0.56	0.75
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.40	1.33	1.15	0.89	0.89
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.16	1.33	1.46	1.76	2.21
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	327	345	327	243	193
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000				
峰值转矩 Peak torque		M _{max}	Nm	5.30				
峰值电流 Peak current		I _{max}	Arms	4.7	5.7	7.2	11.1	14.0
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	1750	2300	3100	5200	6750
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.21	1.00	0.79	0.51	0.40
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	86	71	56	36	29
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	32.2	16.7	10.5	4.24	2.67
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	77.0	52.5	32.7	13.6	8.55
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.25(70MH-L-2)/0.32(80MH-L-2)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.43(70MH-L-2)/0.50(80MH-L-2)				
电机重量 (无制动器) Weight(No brake)		m	kg	2.0				
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.6				
制动器数据 Brake data								
制动器类型 Type		永磁式 Permanent magnet type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.5 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector		M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)						
反馈连接器类型 Feedback connector		M15 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver		VC***-3R833-E						VC***-00733-E



图例
KEY

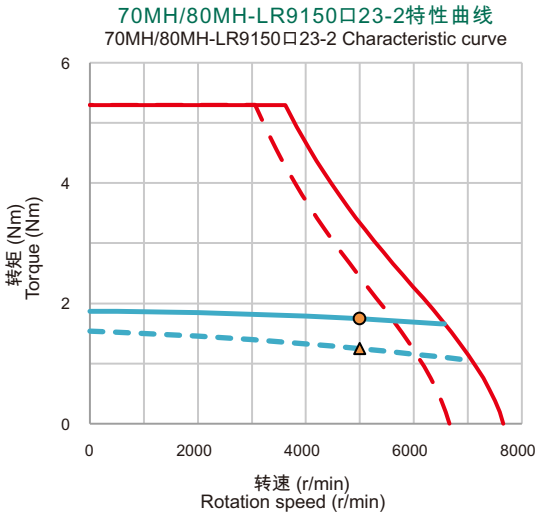
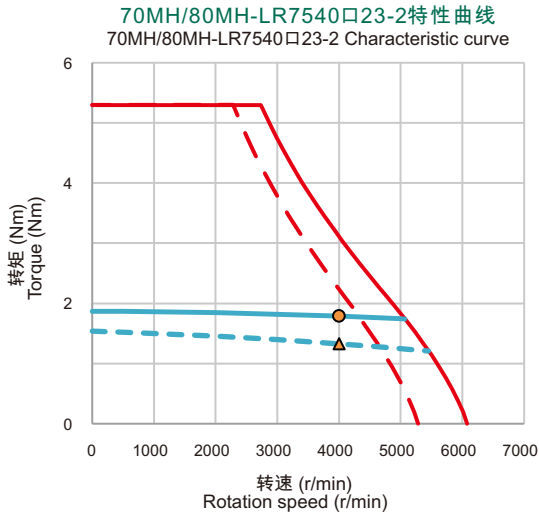
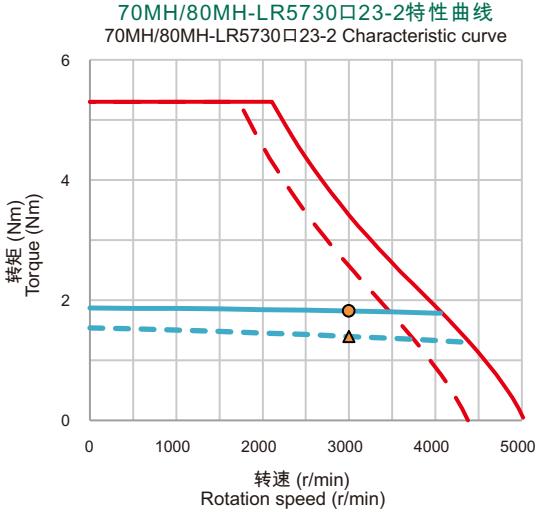
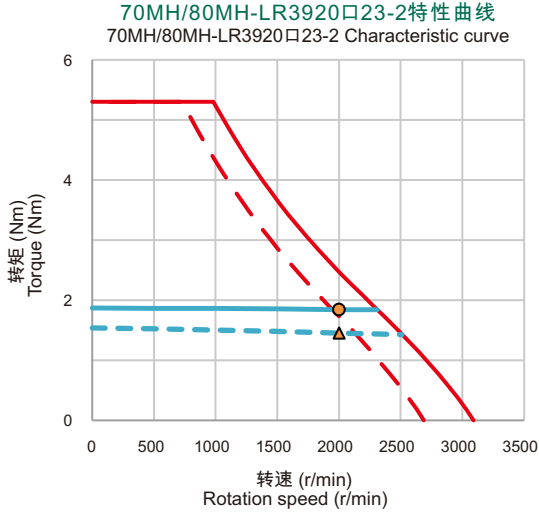
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-2/80MH-L-2技术数据-220VAC

70MH-L-2/80MH-L-2 Technical data -220VAC

电机型号 Motor type			70MH/ 80MH-LR 3920口23-2	70MH/ 80MH-LR 5730口23-2	70MH/ 80MH-LR 7540口23-2	70MH/ 80MH-LR 9150口23-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	1.9			
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	1.91	3.11	3.75	4.73
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	1.54			
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	1.55	2.52	3.04	3.83
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.39	0.57	0.75	0.91
额定转速 Speed		n _N	r/min	2000	3000	4000	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.84	1.82	1.79	1.74
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.85	2.97	3.53	4.33
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	204	176	187	180
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.30	0.44	0.56	0.65
额定转速 Speed		n _N	r/min	2000	3000	4000	5000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.45	1.40	1.33	1.25
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.46	2.29	2.62	3.11
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	191	165	175	169
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值扭矩 Peak torque		M _{max}	Nm	5.30			
峰值电流 Peak current		I _{max}	Arms	5.7	9.2	11.1	14.0
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{max}	r/min	950	2100	2700	3600
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.00	0.61	0.51	0.40
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	71	43	36	29
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	16.7	6.46	4.24	2.67
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	52.5	19.8	13.6	8.55
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.25((70MH-L-2)/0.32(80MH-L-2)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.43((70MH-L-2)/0.50(80MH-L-2)			
电机重量 (无制动器) Weight(No brake)		m	kg	1.5			
电机重量 (带制动器) Weight(With brake)		m _b	kg	2.1			
制动器数据 Brake data							
制动器类型 Type			永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.5 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector			M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector			M15 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***-00323-E		VC***-00623-E		



图例
KEY

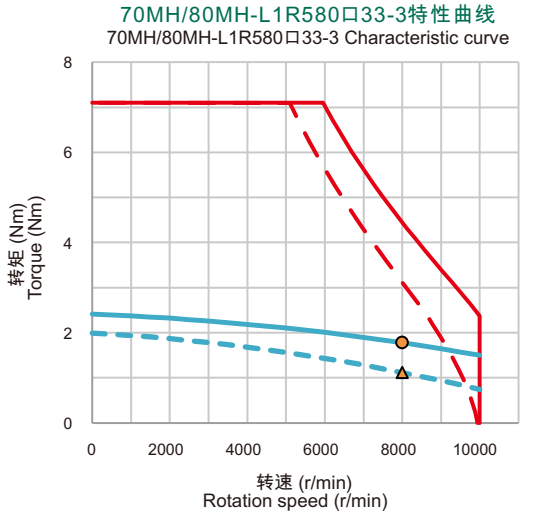
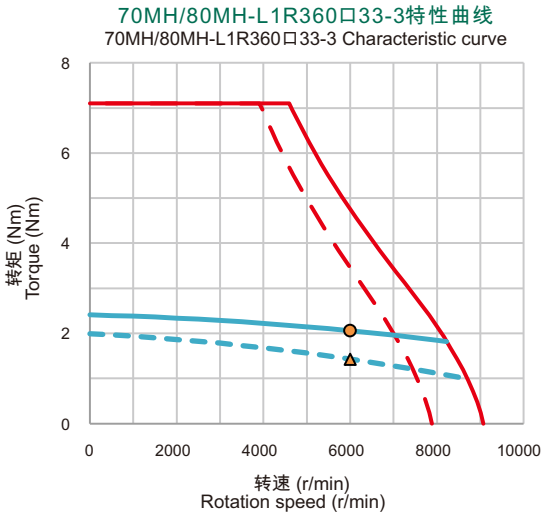
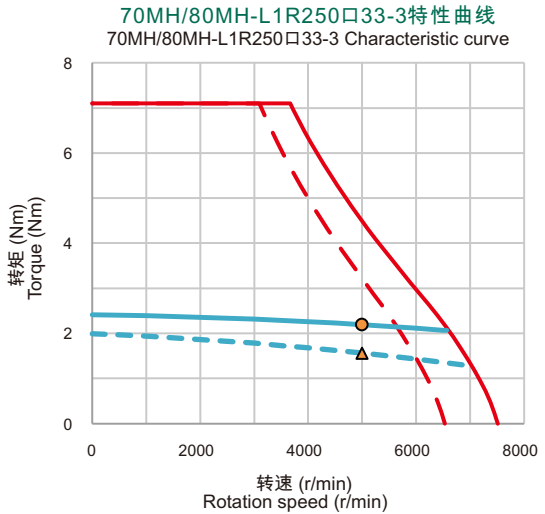
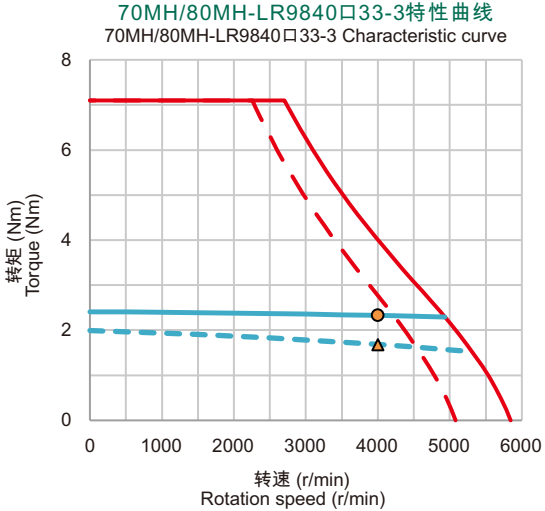
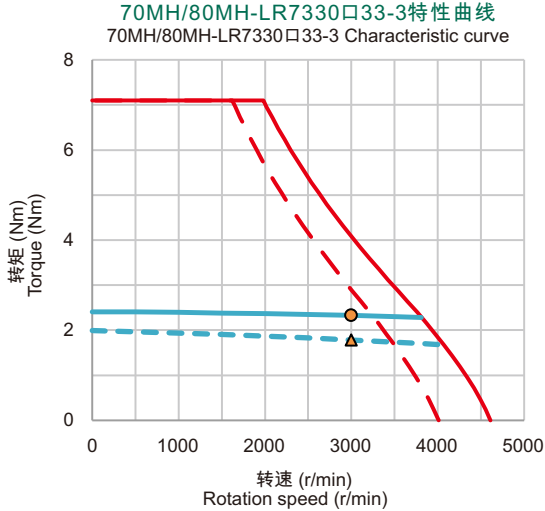
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-3/80MH-L-3技术数据-380VAC

70MH-L-3/80MH-L-3Technical data -380VAC

电机型号 Motor type			70MH/ 80MH-LR 7330口33-3	70MH/ 80MH-LR 9840口33-3	70MH/ 80MH-L1R 250口33-3	70MH/ 80MH-L1R 360口33-3	70MH/ 80MH-L1R 580口33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	2.4				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	1.79	2.27	2.92	3.52	4.44
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	2.0				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	1.49	1.89	2.43	2.94	3.70
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.73	0.98	1.15	1.29	1.49
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	2.33	2.33	2.19	2.06	1.78
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.74	2.20	2.66	3.02	3.29
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	374	381	359	348	354
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.56	0.70	0.82	0.90	0.94
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.78	1.68	1.56	1.43	1.12
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.33	1.59	1.90	2.10	2.07
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	353	358	340	330	339
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000				
峰值转矩 Peak torque		M _{max}	Nm	7.10				
峰值电流 Peak current		I _{max}	Arms	5.7	7.2	9.2	11.1	14.0
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	1600	2250	3100	3900	5100
电机数据 Motor data								
极数 No. of poles		Poles	8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.34	1.06	0.82	0.68	0.54
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	95	75	58	48	38
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	21.5	13.4	8.29	5.45	3.42
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	66.3	41.3	25.0	17.2	10.8
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.33(70MH-L-3)/0.41(80MH-L-3)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.51(70MH-L-3)/0.59(80MH-L-3)				
电机重量 (无制动器) Weight(No brake)		m	kg	2.4				
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.0				
制动器数据 Brake data								
制动器类型 Type		永磁式 Permanent magnet type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.5 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector		M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)						
反馈连接器类型 Feedback connector		M15 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver		VC***-3R833-E						VC***-00733-E



图例
KEY

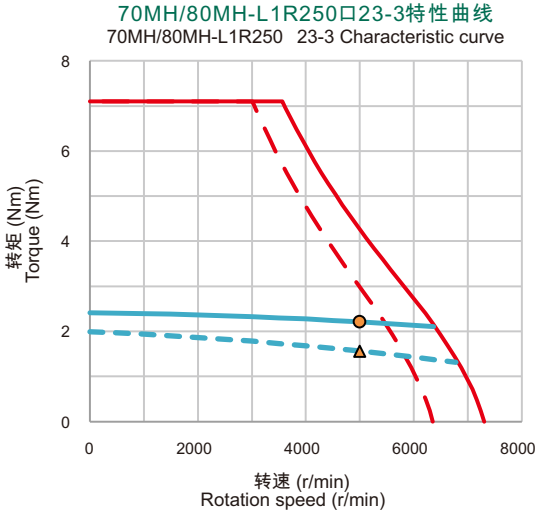
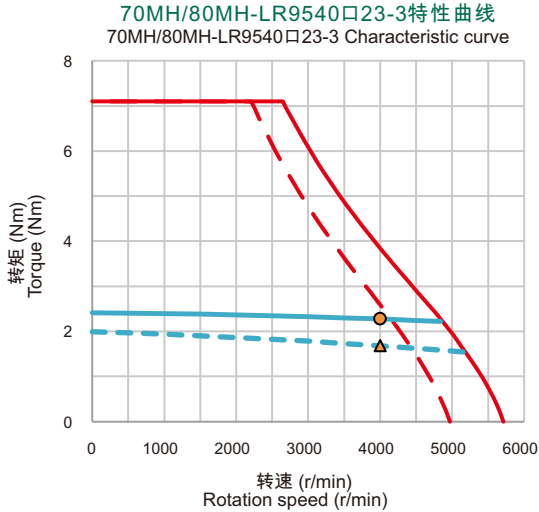
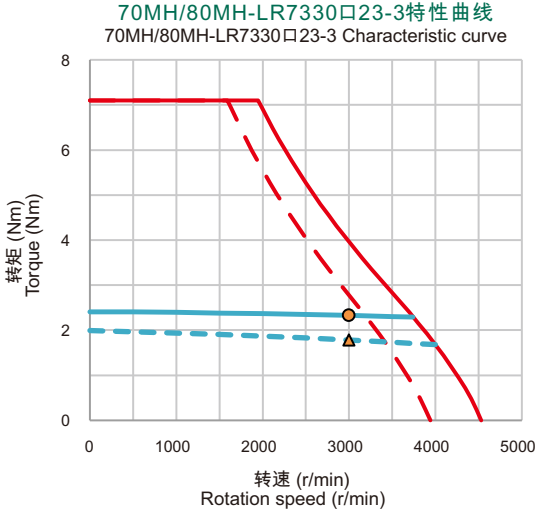
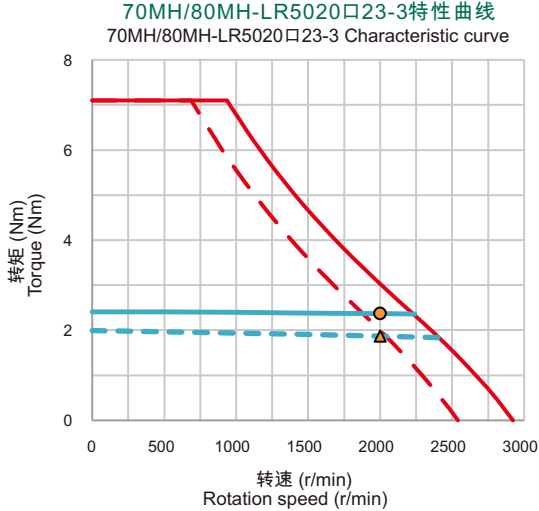
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

70MH-L-3/80MH-L-3技术数据-220VAC

70MH-L-3/80MH-L-3 Technical data -220VAC

电机型号 Motor type			70MH/ 80MH-LR 5020口23-3	70MH/ 80MH-LR 7330口23-3	70MH/ 80MH-LR 9540口23-3	70MH/ 80MH-L1R 250口23-3
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value		
选型数据 Selection Data						
工作电压 Operating Voltage	U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)	M _{0-100K}	Nm	2.4			
堵转电流 (100K) Locked rotor current (100K)	I _{0-100K}	Arms	2.27	3.52	4.44	5.68
堵转转矩 (60K) locked torque (60K)	M _{0-60K}	Nm	2.0			
堵转电流 (60K) Locked rotor current (60K)	I _{0-60K}	Arms	1.89	2.94	3.70	4.73
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)	P _{N-100K}	kW	0.50	0.73	0.95	1.16
额定转速 Speed	n _N	r/min	2000	3000	4000	5000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	2.37	2.33	2.27	2.21
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	2.24	3.42	4.20	5.23
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	210	190	193	185
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)	P _{N-60K}	kW	0.39	0.56	0.70	0.82
额定转速 Speed	n _N	r/min	2000	3000	4000	5000
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	1.87	1.78	1.68	1.56
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	1.77	2.61	3.11	3.69
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	198	179	183	174
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	10000			
峰值转矩 Peak torque	M _{max}	Nm	5.30			
峰值电流 Peak current	I _{max}	Arms	7.2	11.1	14.0	17.9
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)	n _{max}	r/min	900	1950	2650	3550
电机数据 Motor data						
极数 No. of poles	Poles		8			
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	1.06	0.68	0.54	0.42
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	75	48	38	30
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	13.4	5.45	3.42	2.12
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	41.3	17.2	10.8	6.61
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁴ kgm ²	0.33(70MH-L-3)/0.41(80MH-L-3)			
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁴ kgm ²	0.51(70MH-L-3)/0.59(80MH-L-3)			
电机重量 (无制动器) Weight(No brake)	m	kg	2.4			
电机重量 (带制动器) Weight(With brake)	m _b	kg	3.0			
制动器数据 Brake data						
制动器类型 Type			永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	4.5			
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)	I _{br}	A	0.5 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	12 ± 7%			
连接器类型 Connector Type						
动力连接器类型 Power connector			M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector			M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver			VC***-00323-E	VC***-00623-E		



图例
KEY

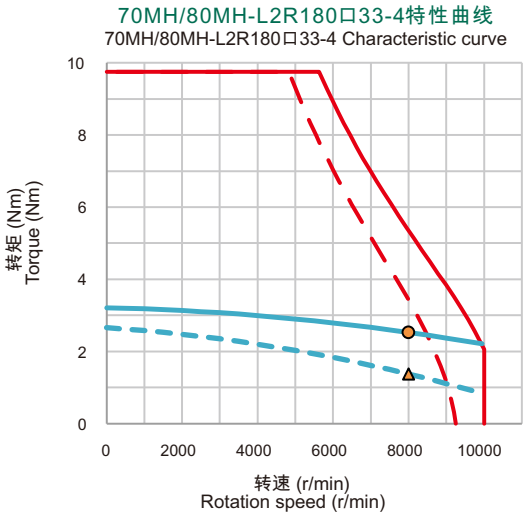
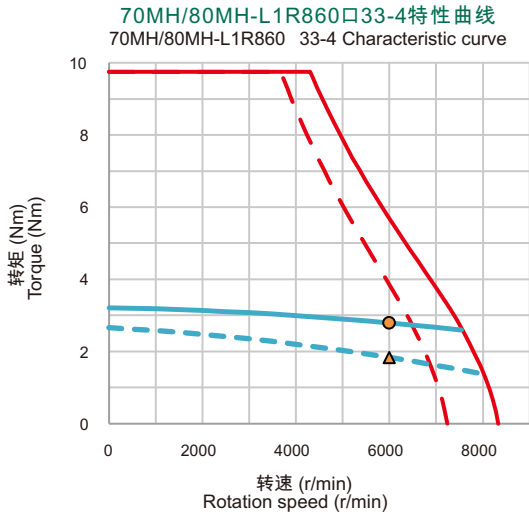
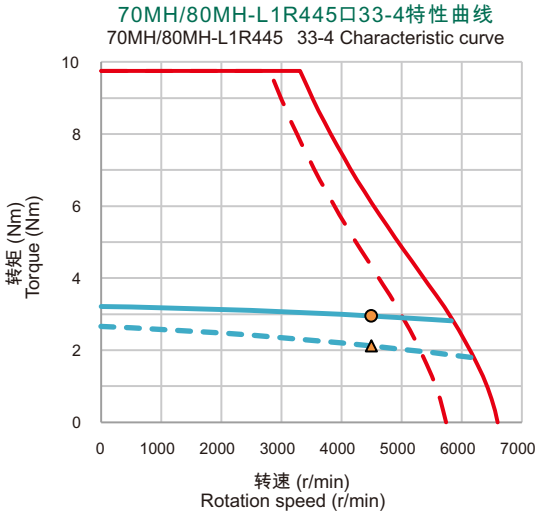
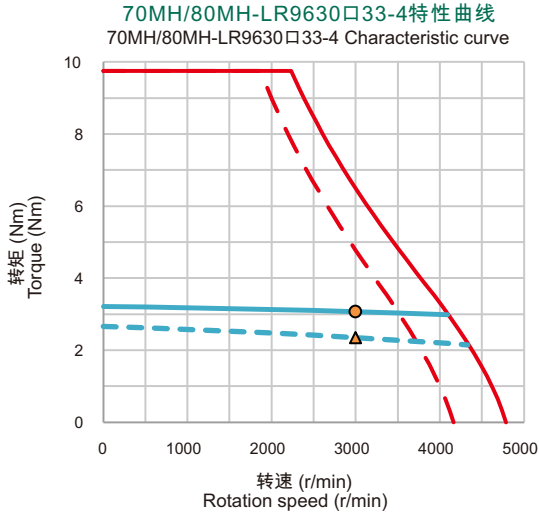
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-4/80MH-L-4技术数据-380VAC

70MH-L-70MH-L-4/80MH-L-4 Technical data -380VAC

电机型号 Motor type			70MH/ 80MH-LR 9630口33-4	70MH/ 80MH-L1R 445口33-4	70MH/ 80MH-L1R 860口33-4	70MH/ 80MH-L2R 180口33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	3.2			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	2.48	3.42	4.31	5.51
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	2.66			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	2.06	2.84	3.59	4.58
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.96	1.39	1.75	2.12
额定转速 Speed		n _N	r/min	3000	4500	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	3.07	2.95	2.79	2.53
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.38	3.15	3.76	4.36
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	348	362	373	379
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.74	1.00	1.15	1.16
额定转速 Speed		n _N	r/min	3000	4500	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	2.35	2.12	1.83	1.38
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.82	2.27	2.47	2.38
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	330	344	354	359
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	10000			
峰值扭矩 Peak torque		M _{max}	Nm	9.75			
峰值电流 Peak current		I _{max}	Arms	8.1	11.1	14.0	17.9
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{max}	r/min	1850	2800	3650	4800
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.29	0.94	0.74	0.58
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	91	66	52	41
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	11.6	5.84	3.67	2.28
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	44.8	23.6	14.8	9.08
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	0.45(70MH-L-4)/0.52(80MH-L-4)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	0.63(70MH-L-4)/0.70(80MH-L-4)			
电机重量 (无制动器) Weight(No brake)		m	kg	2.9			
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.5			
制动器数据 Brake data							
制动器类型 Type				永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	4.5			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.5 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	12 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M15 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-3R833-E		VC***-00733-E	



图例
KEY

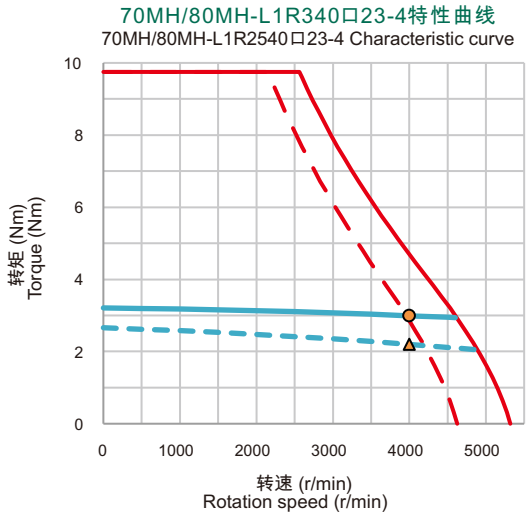
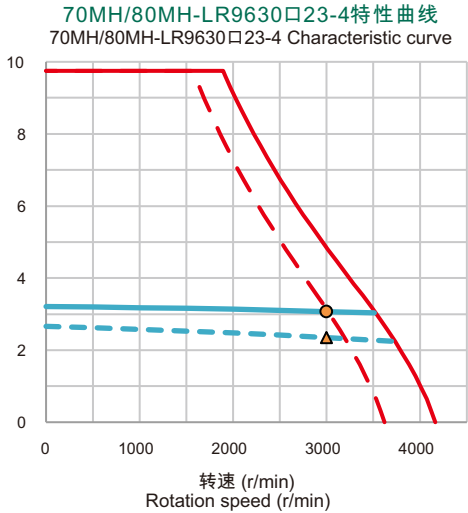
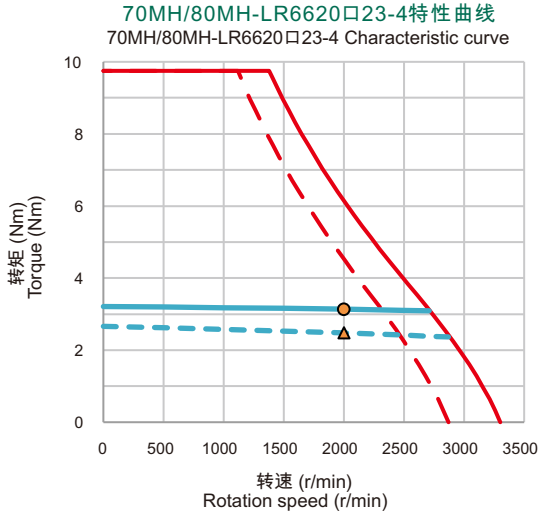
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

70MH-L-4/80MH-L-4技术数据-220VAC

70MH-L-4/80MH-L-4 Technical Data -220VAC

电机型号 Motor type		70MH/ 80MH-LR 6620 口 23-4	70MH/ 80MH-LR 9630 口 23-4	70MH/ 80MH-L1R 340 口 23-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value	
选型数据 Selection Data					
工作电压 Operating Voltage	U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)	M _{b-100K}	Nm	3.2		
堵转电流 (100K) Locked rotor current (100K)	I _{b-100K}	Arms	3.42	4.31	5.51
堵转转矩 (60K) locked torque (60K)	M _{b-60K}	Nm	2.66		
堵转电流 (60K) Locked rotor current (60K)	I _{b-60K}	Arms	2.84	3.59	4.58
额定工作点 (100K) Rated operating point (100K)					
额定功率 (100K) Power (100K)	P _{N-100K}	kW	0.66	0.96	1.25
额定转速 Speed	n _N	r/min	2000	3000	4000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	3.13	3.07	2.99
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	3.35	4.14	5.15
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	176	199	202
额定工作点 (60K) Rated operating point (60K)					
额定功率 (60K) Power (60K)	P _{N-60K}	kW	0.52	0.74	0.92
额定转速 Speed	n _N	r/min	2000	3000	4000
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	2.48	2.35	2.20
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	2.65	3.17	3.79
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	167	189	192
极限数据 Limit data					
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	10000		
峰值扭矩 Peak torque	M _{max}	Nm	9.75		
峰值电流 Peak current	I _{max}	Arms	11.1	14.0	17.9
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)	n _{max}	r/min	1350	1850	2550
电机数据 Motor data					
极数 No. of poles	Poles		8		
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	0.94	0.74	0.58
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	66	52	41
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	5.84	3.67	2.28
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	23.6	14.8	9.08
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁴ kgm ²	0.45(70MH-L-4)/0.52(80MH-L-4)		
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁴ kgm ²	0.63(70MH-L-4)/0.70(80MH-L-4)		
电机重量 (无制动器) Weight(No brake)	m	kg	2.9		
电机重量 (带制动器) Weight(With brake)	m _b	kg	3.5		
制动器数据 Brake data					
制动器类型 Type			永磁式 Permanent magnet type		
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	0		
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	4.5		
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20 °C)	I _{br}	A	0.5 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	12 ± 7%		
连接器类型 Connector Type					
动力连接器类型 Power connector			M15 9-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector			M15 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver					
适配驱动器 Matcheddriver			VC***-00623-E		

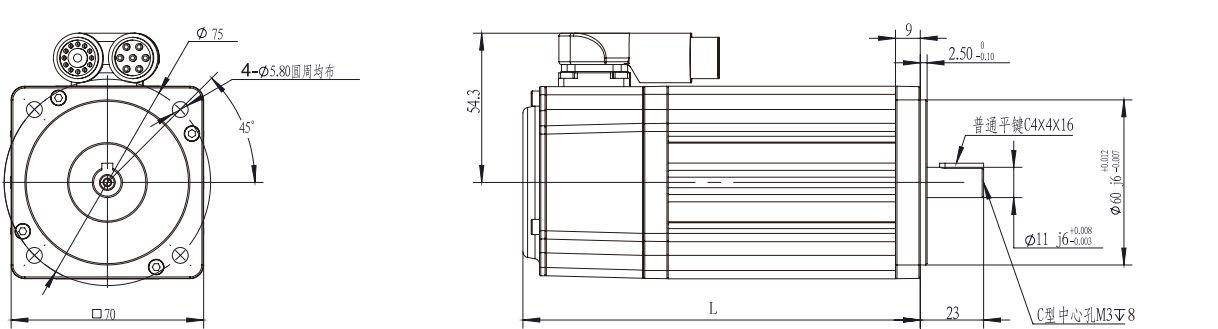


图例
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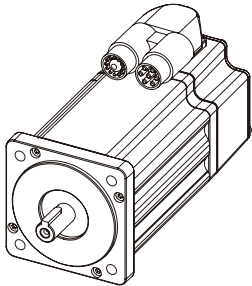
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

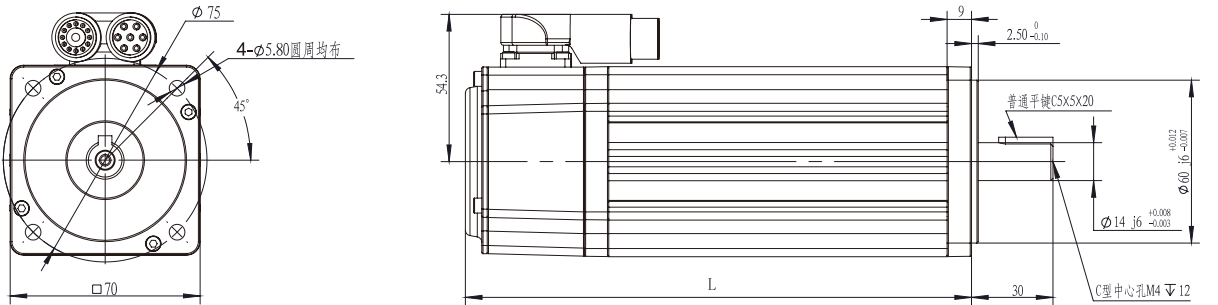
70MH-L-口机械尺寸1
70MH-L-口 Mechanical dimensions 1



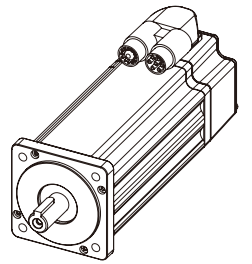
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
70MH-L-1	119.4	153.3
70MH-L-C	134.4	168.3
70MH-L-2	144.4	178.3
70MH-L-3	161.4	195.3



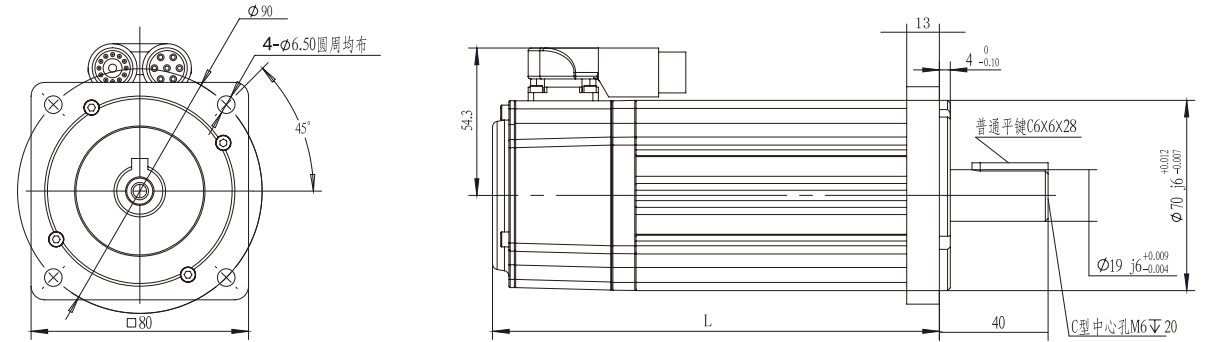
70MH-L-口机械尺寸2
70MH-L-口 Mechanical dimensions2



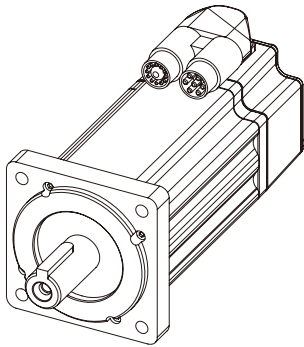
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
70MH-L-4	186.4	220.3



80MH-L-口机械尺寸
80MH-L-口Mechanical dimensions



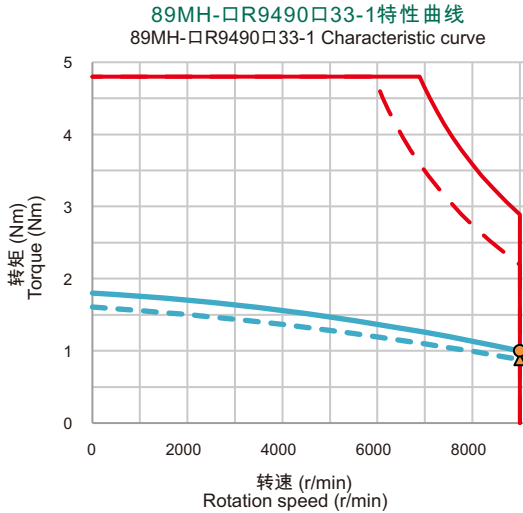
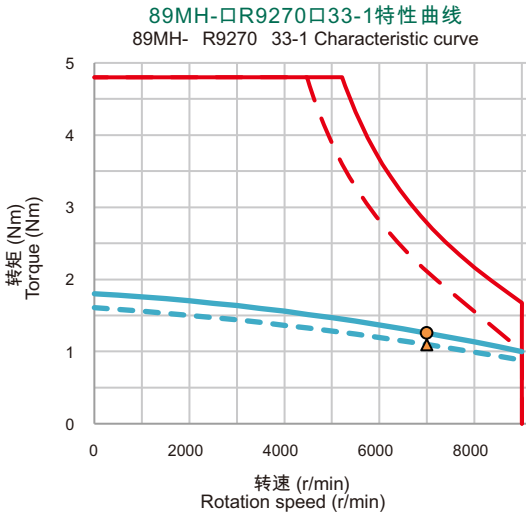
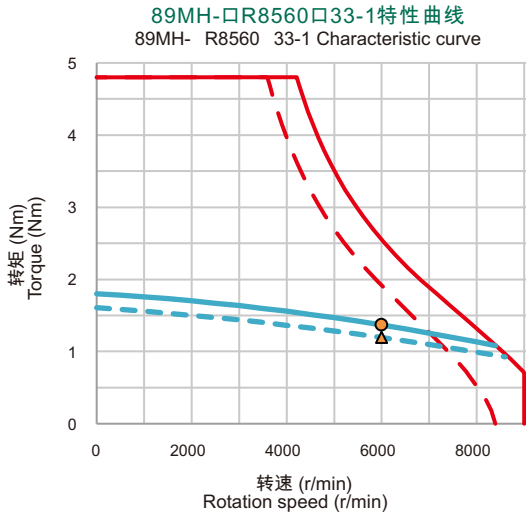
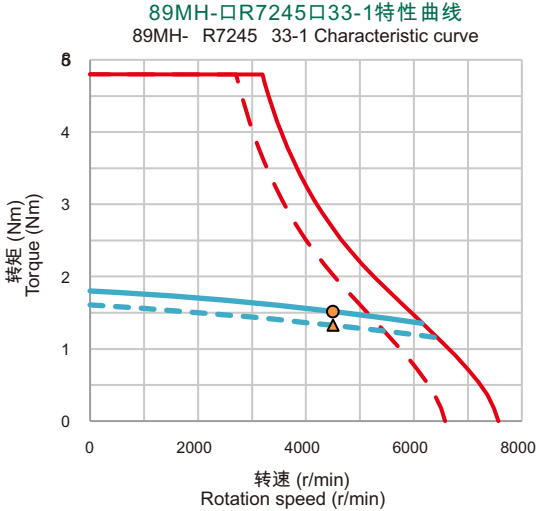
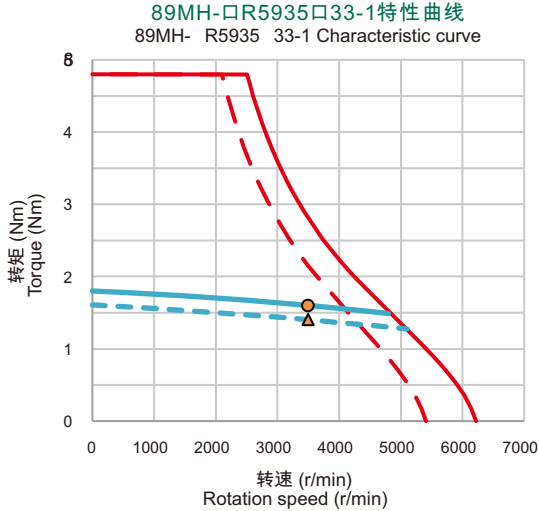
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
80MH-L-1	122.4	157.4
80MH-L-C	137.4	172.4
80MH-L-2	147.4	182.4
80MH-L-3	164.4	199.4
80MH-L-4	189.4	224.4



89MH-口-1技术数据-380VAC

89MH-口-1Technical data -380VAC

电机型号 Motor type			89MH-□R 5935□33-1	89MH-□R 7245□33-1	89MH-□R 8560□33-1	89MH-□R 9270□33-10	89MH-□R 9490□33-1	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	1.8				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	1.8	2.2	2.9	3.5	4.5
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	1.6				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	1.6	2.0	2.5	3.0	3.9
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.59	0.72	0.85	0.92	0.94
额定转速 Speed		n _N	r/min	3500	4500	6000	7000	9000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.60	1.52	1.36	1.26	1.00
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.6	1.9	2.2	2.4	2.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	350	356	353	330	309
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.51	0.63	0.75	0.81	0.83
额定转速 Speed		n _N	r/min	3500	4500	6000	7000	9000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.40	1.33	1.19	1.10	0.88
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.4	1.6	1.9	2.1	2.2
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	333	340	339	319	301
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	9000				
峰值扭矩 Peak torque		M _{max}	Nm	4.8				
峰值电流 Peak current		I _{max}	Arms	5.5	6.7	8.5	10.3	13.4
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	2100	2700	3600	4450	5900
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.98	0.80	0.63	0.52	0.40
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	70	58	45	37	29
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	17.3	11.3	7.03	4.61	2.82
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	84.8	57.4	35.2	24.1	14.3
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	0.44 (L) / 1.80 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	0.55 (L) / 1.91 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	2.6 (L) / 2.9 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.3 (L) / 3.6 (M)				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-3R833-E				VC***-00733-E



图例
KEY

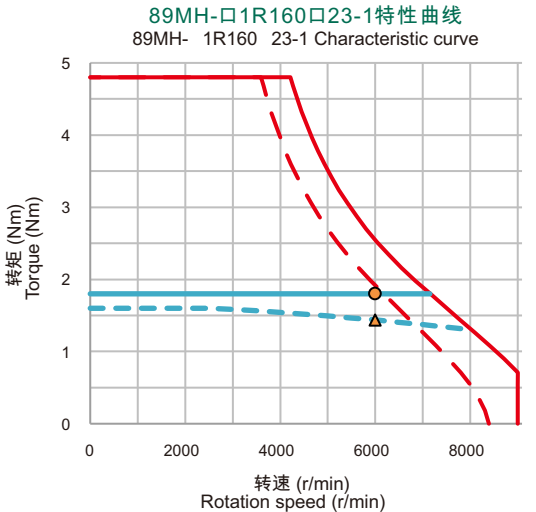
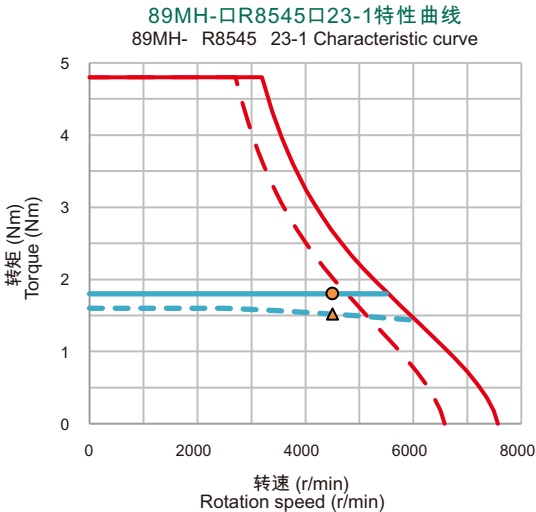
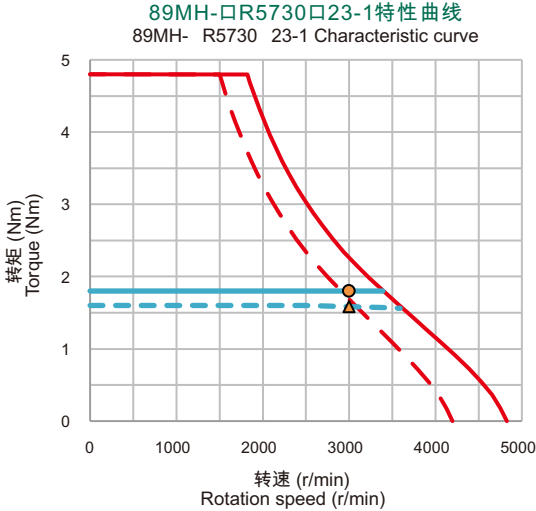
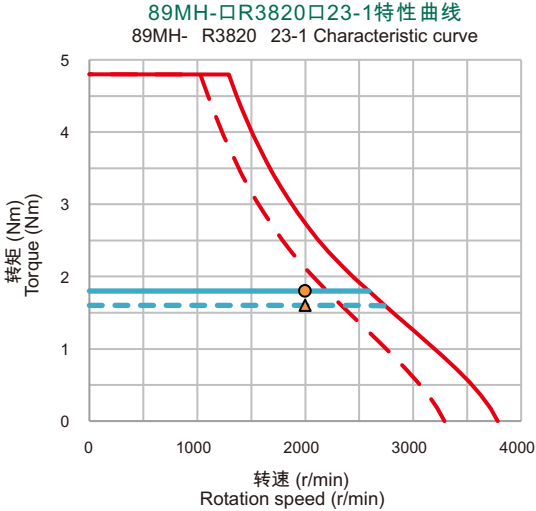
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S_i @ 100K

● P_N - 100K
--- S_i @ 60K
▲ P_N - 60K

89MH-口-1技术数据-220VAC

89MH-口-1Technical data -220VAC

电机型号 Motor type			89MH-□R 3820□23-1	89MH-□R 5730□23-1	89MH-□R 8545□23-1	89MH-□1R 160□23-1	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	1.8			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	2.2	2.9	4.5	5.7
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	1.6			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	2.0	2.5	3.9	5.0
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.38	0.57	0.85	1.13
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	1.80	1.80	1.80	1.80
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.2	2.9	4.5	5.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	184	206	189	195
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.34	0.50	0.72	0.90
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.60	1.59	1.52	1.44
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.0	2.5	3.7	4.5
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	175	195	177	179
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	9000			
峰值扭矩 Peak torque		M _{max}	Nm	4.8			
峰值电流 Peak current		I _{max}	Arms	6.7	8.5	13.4	17.1
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1300	1800	3200	4200
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.80	0.63	0.40	0.31
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	58	45	29	23
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	11.3	7.03	2.82	1.75
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	57.4	35.2	14.3	8.81
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	0.44 (L) / 1.80 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	0.55 (L) / 1.91 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	2.6 (L) / 2.9 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.3 (L) / 3.6 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00323-E		VC***-00623-E	



图例
KEY

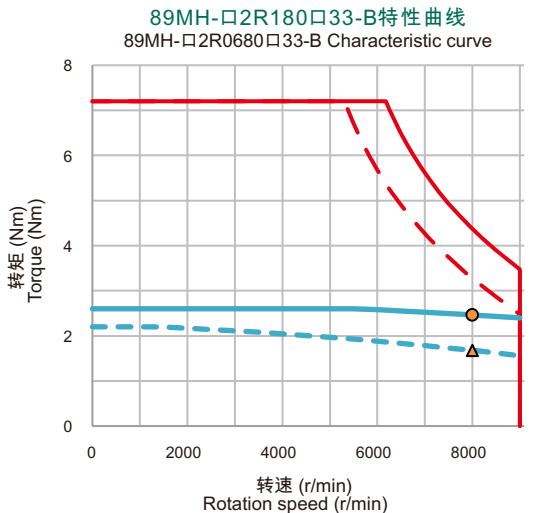
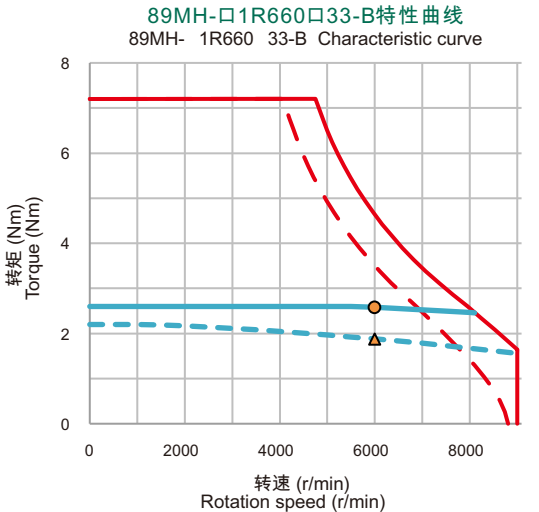
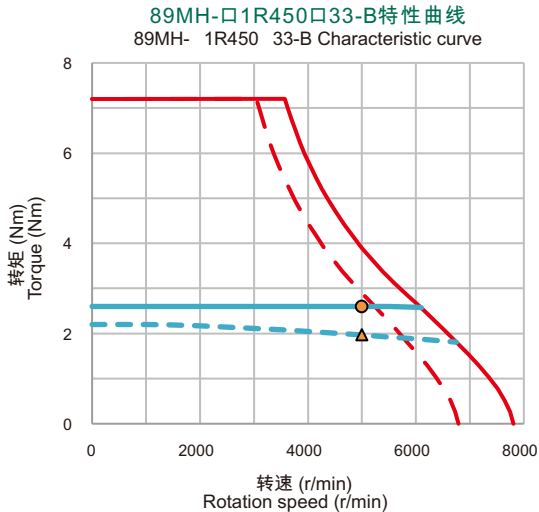
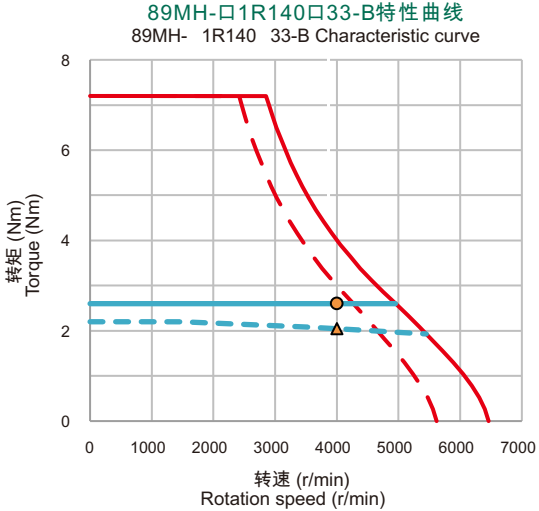
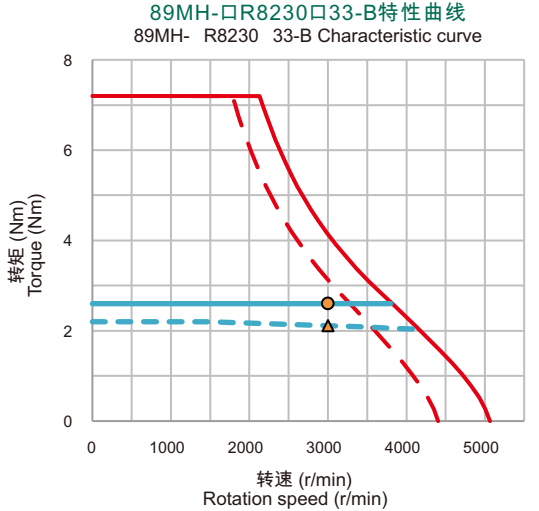
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

89MH-口-B技术数据-380VAC

89MH-口-BTechnical data -380VAC

电机型号 Motor type			89MH-□R 8230□33-B	89MH-□1R 140□33-B	89MH-□1R 450□33-B	89MH-□1R 660□33-B	89MH-□2R 180□33-B	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	2.6				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	2.1	2.7	3.3	4.2	5.4
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	2.2				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	1.8	2.3	2.7	3.5	4.5
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.82	1.09	1.36	1.62	2.06
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	2.60	2.60	2.60	2.58	2.46
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.1	2.7	3.3	4.2	5.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	369	376	383	350	356
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.66	0.86	1.03	1.18	1.41
额定转速 Speed		n _N	r/min	3000	4000	5000	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	2.11	2.05	1.97	1.88	1.68
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.7	2.1	2.4	3.0	3.5
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	342	348	351	319	322
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	9000				
峰值扭矩 Peak torque		M _{max}	Nm	7.2				
峰值电流 Peak current		I _{max}	Arms	6.7	8.6	10.4	13.5	17.2
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1750	2400	3050	4050	5300
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.22	0.96	0.79	0.61	0.48
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	86	68	56	43	34
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	14.3	8.89	5.83	3.56	2.22
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	79.6	48.9	33.5	19.9	12.2
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	0.65 (L) / 2.01 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	0.76 (L) / 2.12 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	3.15 (L) / 3.45 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.9 (L) / 4.2 (M)				
制动器数据 Brake data								
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector		M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)						
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver		VC***-3R833-E				VC***-00733-E		



图例
KEY

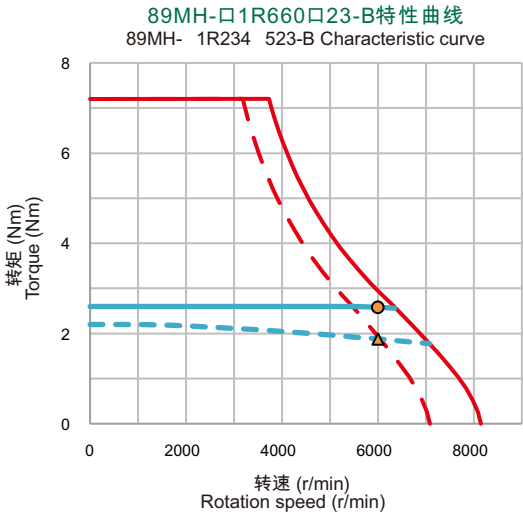
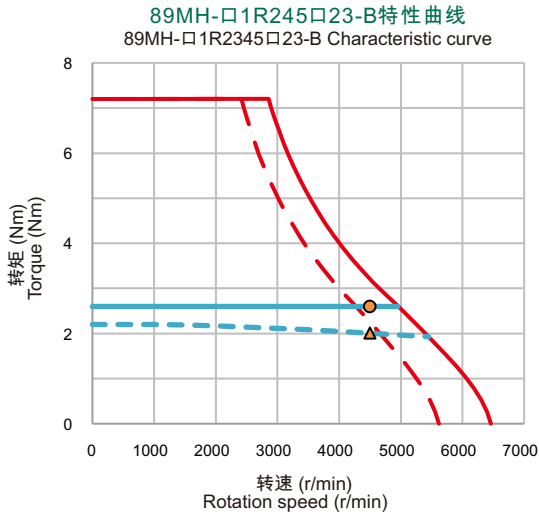
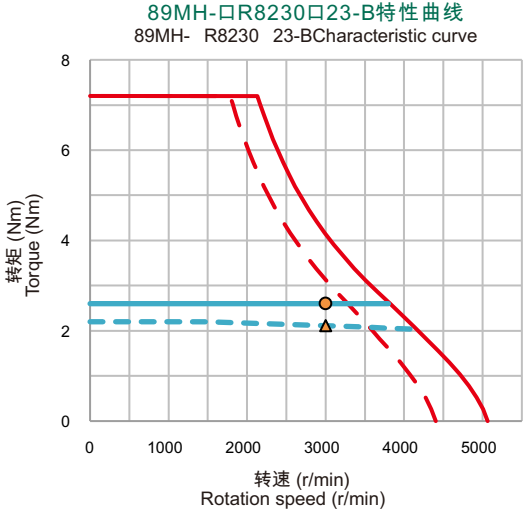
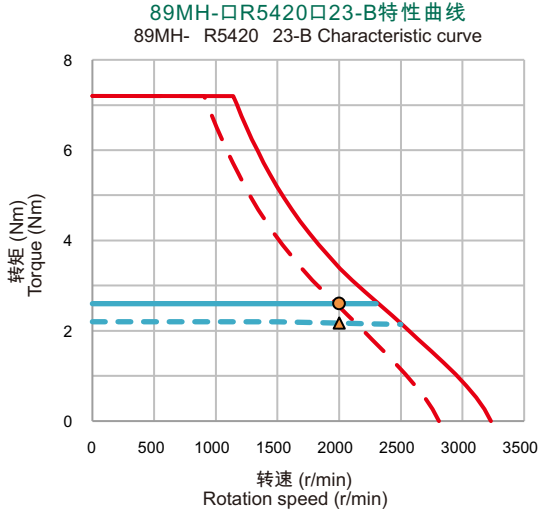
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

89MH-口-B技术数据-220VAC

89MH-口-BTechnical data -220VAC

电机型号 Motor type			89MH-□R 5420□23-B	89MH-□R 8230□23-B	89MH-□1R 245□23-B	89MH-□1R 660□23-B
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	2.6		
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	2.7	4.2	5.4 6.8
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	2.2		
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	2.3	3.5	4.5 5.7
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.54	0.82	1.23 1.62
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	2.60	2.60	2.60 2.58
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.7	4.2	5.4 6.8
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	202	184	210 218
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.45	0.66	0.95 1.18
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	2.17	2.11	2.01 1.88
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.2	3.4	4.1 4.9
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	189	171	193 198
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	9000		
峰值扭矩 Peak torque		M _{max}	Nm	7.2		
峰值电流 Peak current		I _{max}	Arms	8.6	13.5	17.2 21.6
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1100	2100	2850 3700
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.96	0.61	0.48 0.38
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	68	43	34 27
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	8.89	3.56	2.22 1.39
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	48.9	19.9	12.2 7.69
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	0.65 (L) / 2.01 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	0.76 (L) / 2.12 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	3.15 (L) / 3.45 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	3.9 (L) / 4.2 (M)		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-00323-E	VC***-00623-E	VC***-01223-E



图例
KEY

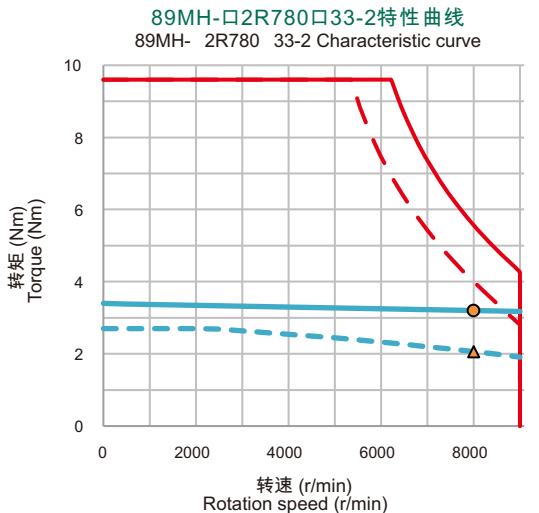
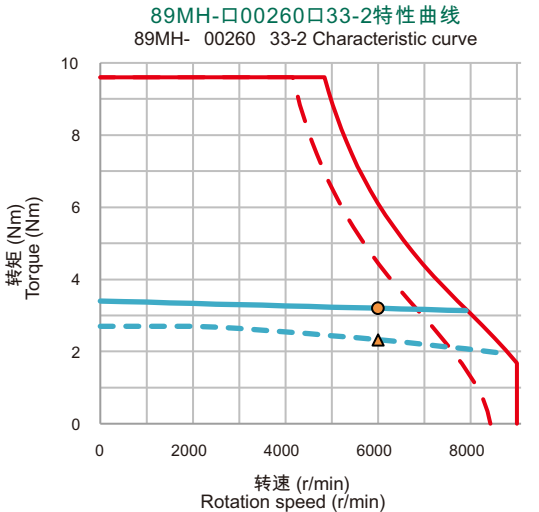
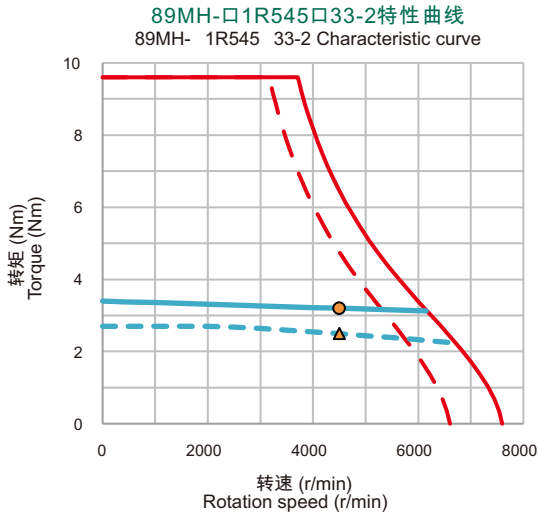
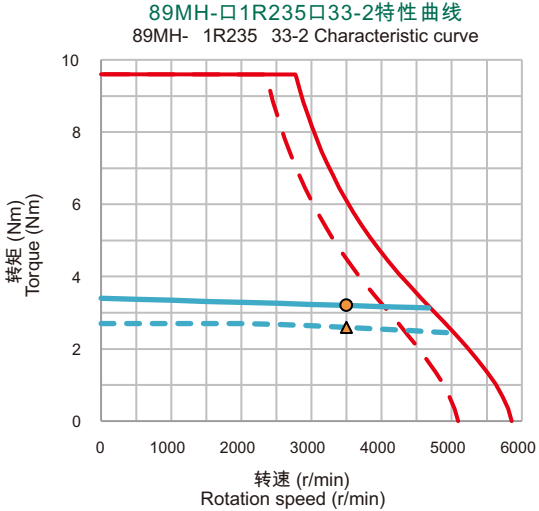
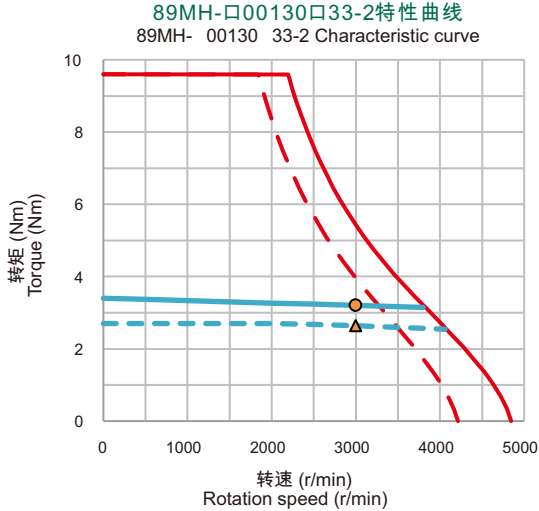
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S_i @ 100K

- P_N - 100K
- S_i @ 60K
- ▲ P_N - 60K

89MH-口-2技术数据-380VAC

89MH-口-2Technical data -380VAC

电机型号 Motor type			89MH-□0 0130□33-2	89MH-□1R 235□33-2	89MH-□1R 545□33-2	89MH-□0 0260□33-2	89MH-□2R 780□33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	3.4				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	2.6	3.1	4.1	5.2	6.6
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	2.7				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	2.0	2.4	3.2	4.0	5.1
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.01	1.17	1.51	2.01	2.68
额定转速 Speed		n _N	r/min	3000	3500	4500	6000	8000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	3.20	3.20	3.20	3.20	3.20
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.5	3.0	3.8	4.9	6.2
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	369	351	343	354	370
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.83	0.95	1.18	1.46	1.73
额定转速 Speed		n _N	r/min	3000	3500	4500	6000	8000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	2.64	2.59	2.50	2.33	2.06
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.0	2.3	2.9	3.5	3.9
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	347	329	286	325	334
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	9000				
峰值扭矩 Peak torque		M _{max}	Nm	9.6				
峰值电流 Peak current		I _{max}	Arms	8.6	10.4	13.5	17.2	21.6
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1700	2200	3000	3950	5000
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.31	1.08	0.83	0.65	0.52
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	90	75	58	45	36
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	10.9	7.14	4.36	2.71	1.70
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	65.2	44.7	26.5	16.3	10.3
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	0.74 (L) / 3.15 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	0.85 (L) / 3.26 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	3.7 (L) / 4.2 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	4.5 (L) / 5.0 (M)				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-00323-E		VC***-00623-E		VC***-01223-E



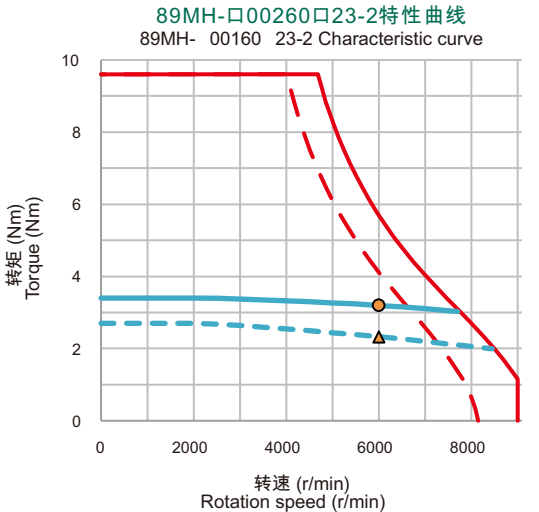
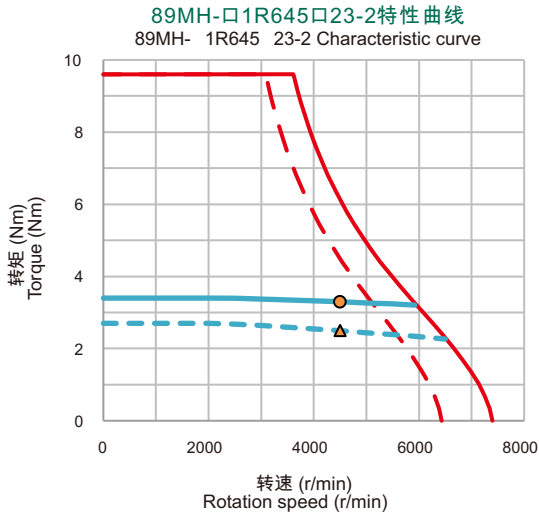
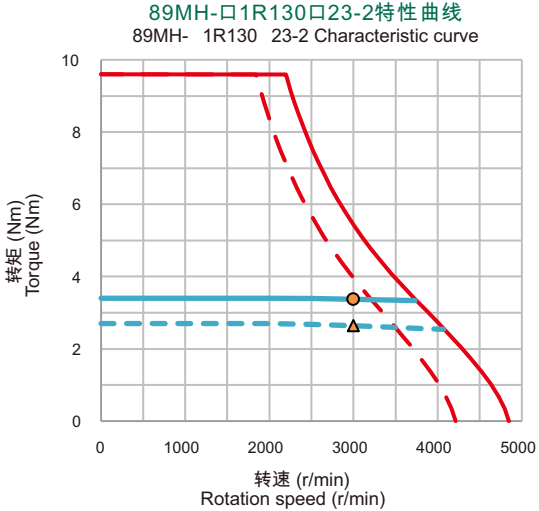
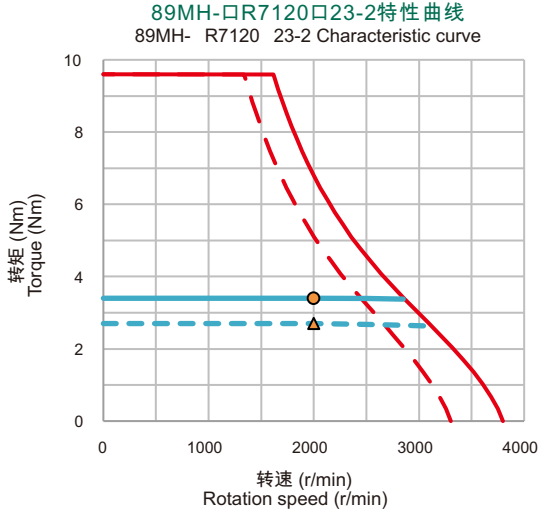
图例
KEY
- - - M_{max} @ 400VAC
—— M_{max} @ 460VAC
—— S₁ @ 100K

● P_N - 100K
- - - S₁ @ 60K
▲ P_N - 60K

89MH-口-2技术数据-220VAC

89MH-口-2Technical data -220VAC

电机型号 Motor type			89MH-□R 7120□23-2	89MH-□1R 130□23-2	89MH-□1R 645□23-2	89MH-□0 0260□23-2
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage	U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)	M _{0-100K}	Nm	3.4			
堵转电流 (100K) Locked rotor current (100K)	I _{0-100K}	Arms	4.1	5.2	8.0	10.1
堵转转矩 (60K) locked torque (60K)	M _{0-60K}	Nm	2.7			
堵转电流 (60K) Locked rotor current (60K)	I _{0-60K}	Arms	3.2	4.0	6.2	7.9
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)	P _{N-100K}	kW	0.71	1.06	1.56	2.01
额定转速 Speed	n _N	r/min	2000	3000	4500	6000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	3.40	3.37	3.30	3.20
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	4.1	5.2	7.7	9.5
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	167	188	178	183
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)	P _{N-60K}	kW	0.57	0.83	1.18	1.46
额定转速 Speed	n _N	r/min	2000	3000	4500	6000
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	2.70	2.64	2.50	2.33
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	3.2	4.0	5.7	6.8
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	154	174	164	168
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	9000			
峰值扭矩 Peak torque	M _{max}	Nm	9.6			
峰值电流 Peak current	I _{max}	Arms	13.5	17.2	26.2	33.2
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)	n _{nee}	r/min	1500	2050	3400	4450
电机数据 Motor data						
极数 No. of poles		Poles	8			
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	0.83	0.65	0.43	0.34
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	58	45	30	23
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	4.36	2.71	1.12	0.699
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	26.5	16.3	7.00	4.36
转动惯量 (无制动器) Rotary inertia(No brake)	J	104kgm ²	0.74 (L) / 3.15 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	104kgm ²	0.85 (L) / 3.26 (M)			
电机重量 (无制动器) Weight(No brake)	m	kg	3.7 (L) / 4.2 (M)			
电机重量 (带制动器) Weight(With brake)	m _b	kg	4.5 (L) / 5.0 (M)			
制动器数据 Brake data						
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	5.3			
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)	I _{br}	A	0.61 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	14.7 ± 7%			
连接器类型 Connector Type						
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver			VC***-00623-E		VC***-01223-E	



图例
KEY

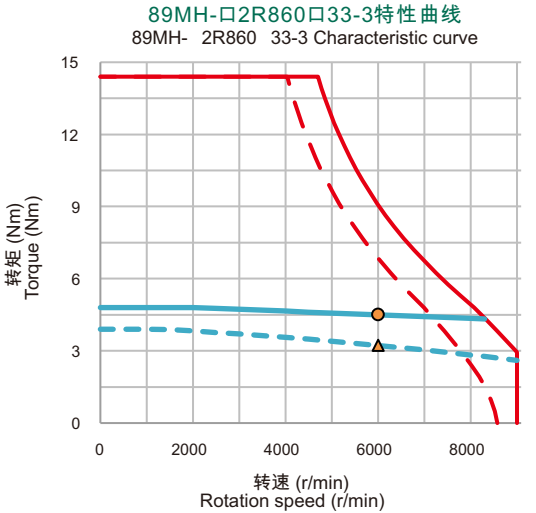
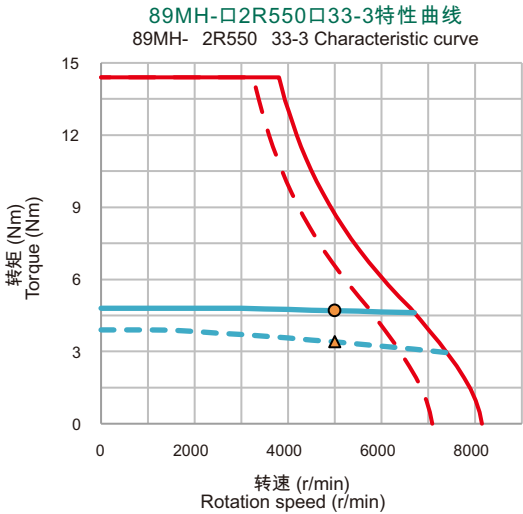
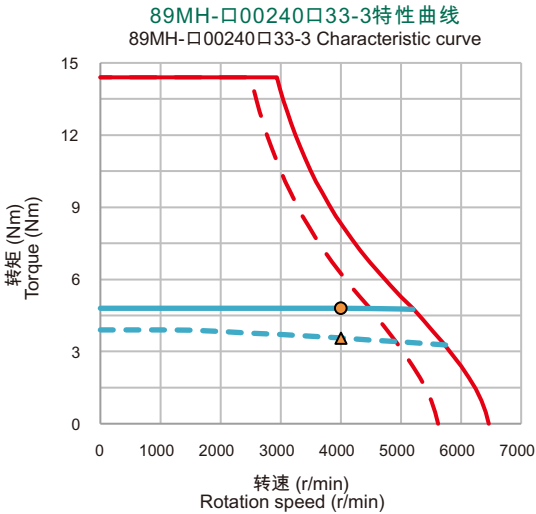
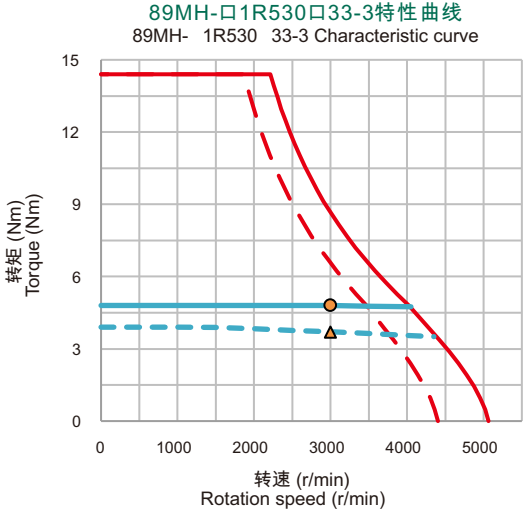
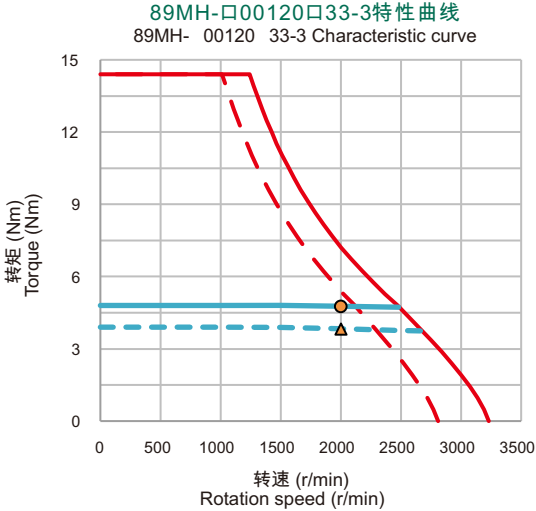
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

89MH-口-3技术数据-380VAC

89MH-口-3Technical data -380VAC

电机型号 Motor type			89MH-□ 00120□33-3	89MH-□1R 530□33-3	89MH-□0 0240□33-3	89MH-□2R 550□33-3	89MH-□2R 860□33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	4.8				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	2.4	3.8	4.9	6.1	7.4
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	3.9				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	1.94	3.0	3.9	4.9	5.9
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.00	1.51	2.01	2.46	2.83
额定转速 Speed		n _N	r/min	2000	3000	4000	5000	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	4.76	4.80	4.80	4.70	4.50
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.4	3.8	4.9	6.0	
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	379	350	359	349	339
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.80	1.16	1.49	1.78	2.03
额定转速 Speed		n _N	r/min	2000	3000	4000	5000	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.83	3.70	3.56	3.40	3.23
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.90	2.9	3.5	4.3	
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	353	324	337	321	313
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	9000				
峰值转矩 Peak torque		M _{max}	Nm	14.4				
峰值电流 Peak current		I _{max}	Arms	8.6	13.5	17.2	21.6	26.2
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1000	1850	2500	3250	4000
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.97	1.26	0.98	0.78	0.64
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	135	86	68	54	
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	14.9	5.99	3.72	2.34	1.53
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	97.8	39.8	24.5	15.4	10.5
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	1.04 (L) / 5.24 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	1.15 (L) / 5.35 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	4.6 (L) / 5.4 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	5.4 (L) / 6.2 (M)				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-00623-E		VC***-01223-E		



图例
KEY

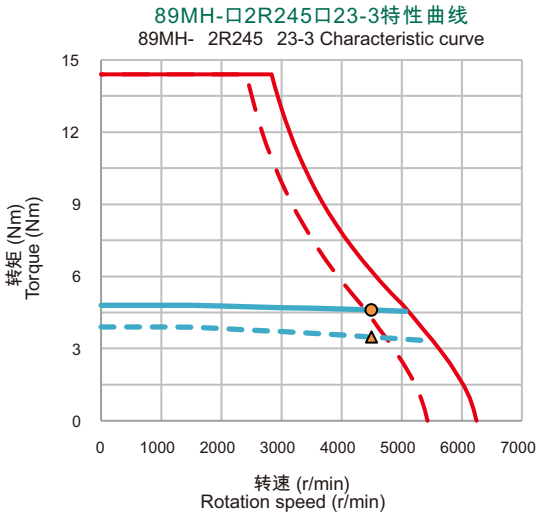
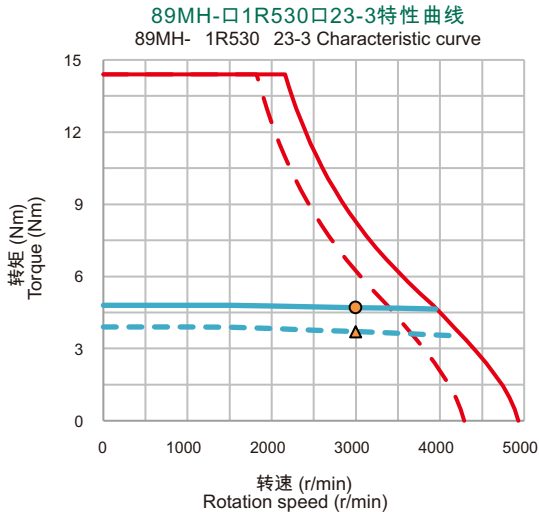
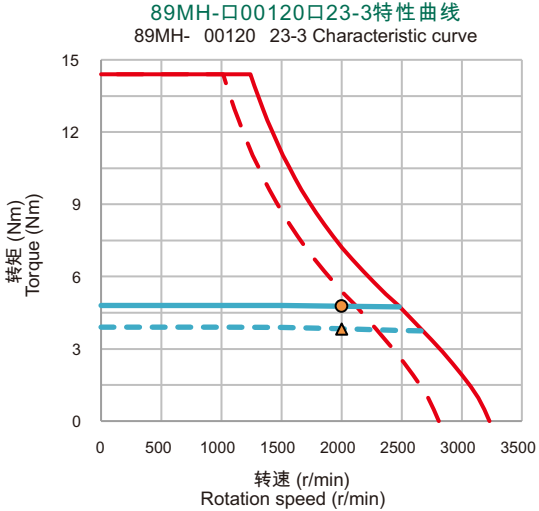
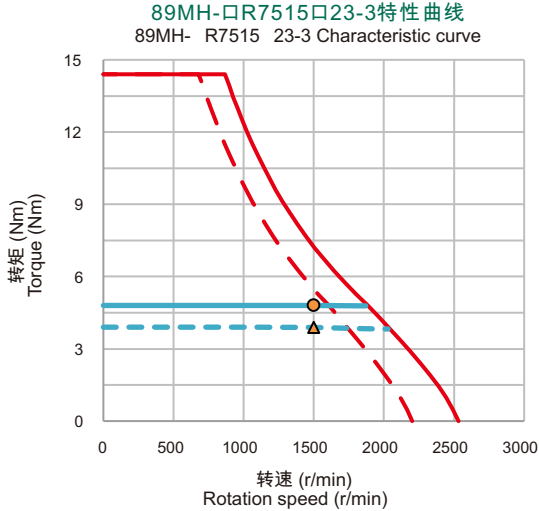
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

89MH-口-3技术数据-220VAC

89MH-口-3Technical data -220VAC

电机型号 Motor type			89MH-口R 7515口23-3	89MH-口 00120口23-3	89MH-口1R 530口23-3	89MH口2R 245口23-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	4.8			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	3.8	4.9	7.4	9.4
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	3.9			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	3.0	3.9	5.9	7.5
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.75	1.00	1.47	2.16
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	4.80	4.76	4.69	4.59
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	3.8	4.8	7.3	9.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	189	190	178	204
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.61	0.80	1.16	1.64
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.88	3.83	3.70	3.48
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.0	3.8	5.6	6.7
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	175	177	166	190
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	9000			
峰值扭矩 Peak torque		M _{max}	Nm	14.4			
峰值电流 Peak current		I _{max}	Arms	13.5	17.2	26.2	33.2
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	850	1200	2150	2800
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.26	0.98	0.64	0.51
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	86	68	44	35
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	5.99	3.72	1.53	0.961
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	39.8	24.5	10.5	6.54
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	1.04 (L) / 5.24 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	1.15 (L) / 5.35 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	4.6 (L) / 5.4 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	5.4 (L) / 6.2 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	5.3			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.61 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	14.7 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00623-E		VC***-01223-E	

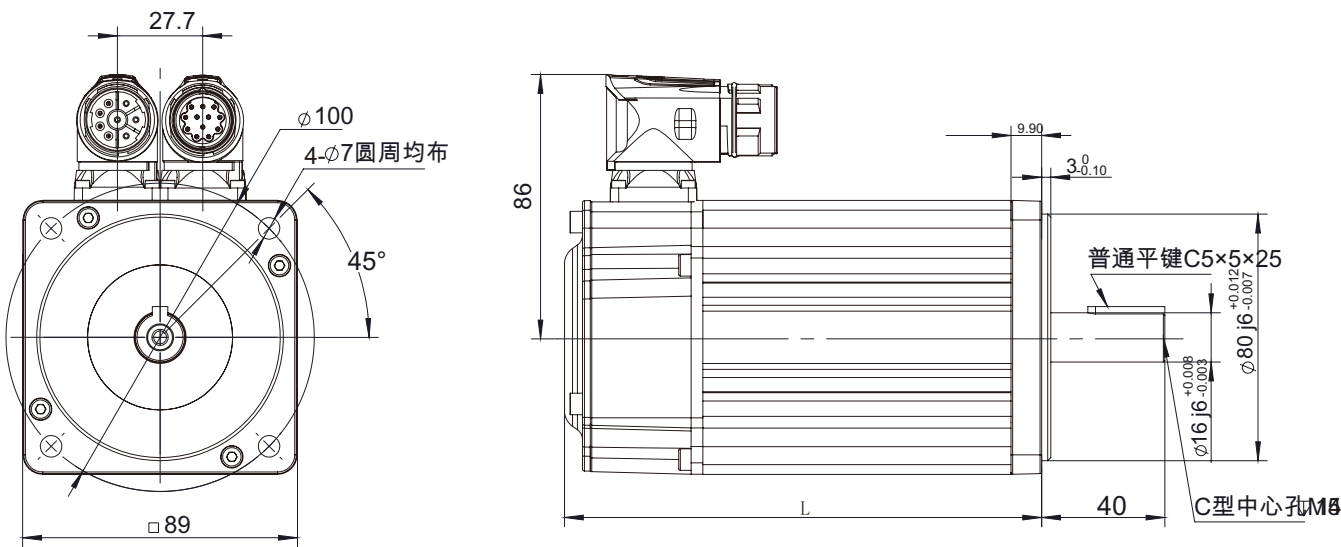


图例
KEY

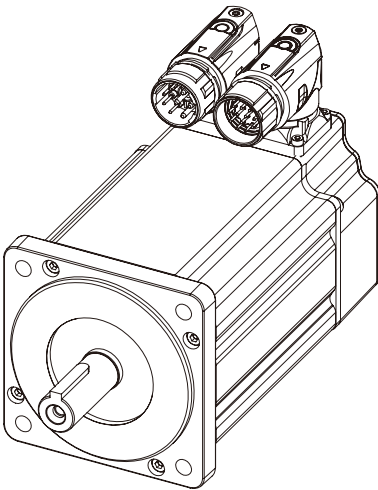
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

89MH-□-□机械尺寸
89MH-□-□Mechanical dimensions



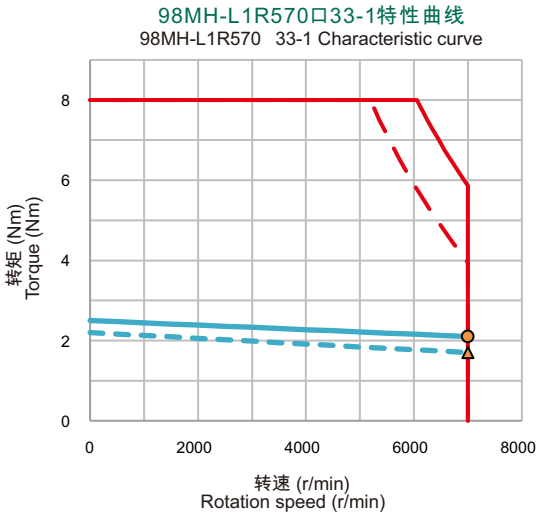
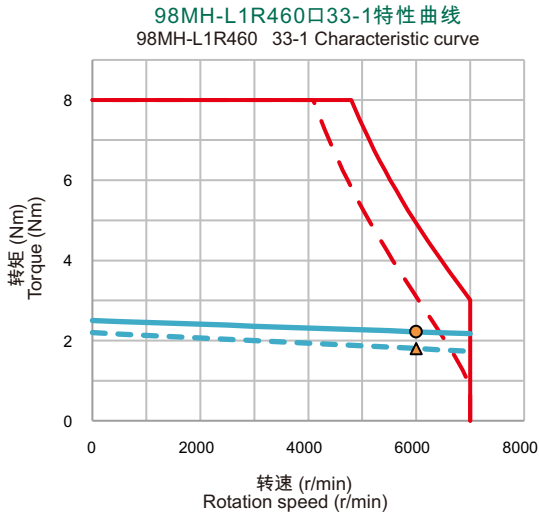
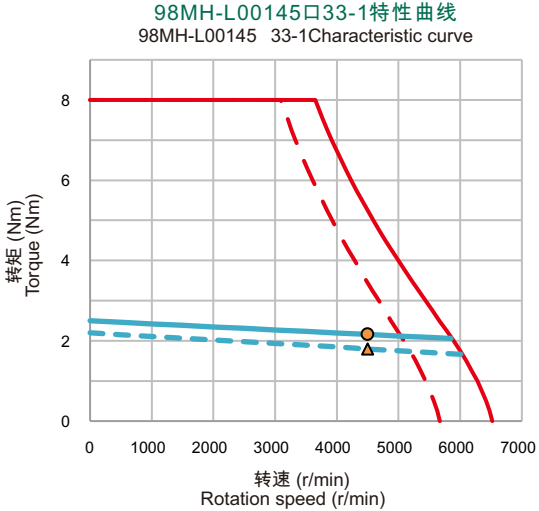
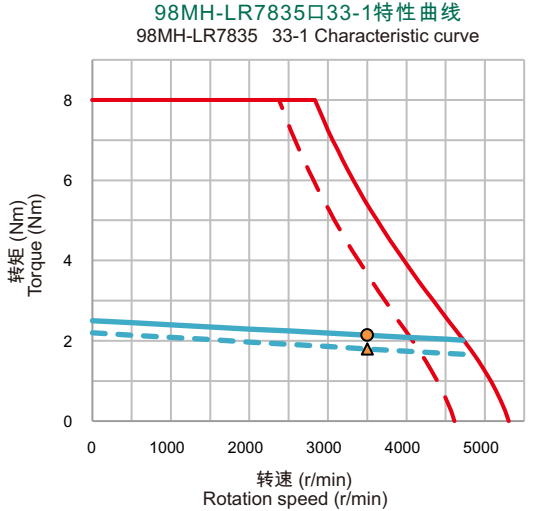
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
89MH-L-1	129.8	165.8
89MH-L-B	142.3	178.3
89MH-L-2	154.8	190.8
89MH-L-3	179.8	215.8
89MH-M-1	136.8	172.8
89MH-M-B	149.3	185.3
89MH-M-2	165.8	201.8
89MH-M-3	197.3	233.3



98MH-L-1技术数据-380VAC

98MH-L-1Technical data -380VAC

电机型号 Motor type			98MH-LR 7835□33-1	98MH-L0 0145□33-1	98MH-L1R 460□33-1	98MH-L1R 570□33-1
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	380 ... 480		
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	2.5		
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	2.1	2.6	3.3 4.1
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	2.2		
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	1.9	2.3	2.9 3.6
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.78	1.02	1.39 1.54
额定转速 Speed		n _N	r/min	3500	4500	6000 7000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	2.14	2.16	2.22 2.10
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	1.8	2.3	3.0 3.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	351	361	374 349
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.66	0.85	1.13 1.25
额定转速 Speed		n _N	r/min	3500	4500	6000 7000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	1.80	1.80	1.80 1.70
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.5	1.9	2.4 2.8
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	342	351	364 340
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	7000		
峰值扭矩 Peak torque		M _{max}	Nm	8.0		
峰值电流 Peak current		I _{max}	Arms	6.9	8.5	10.8 13.3
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	2350	3050	4050 5150
电机数据 Motor data						
极数 No. of poles			Poles	8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.17	0.95	0.75 0.61
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	82	67	53 43
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	12.0	7.71	4.81 3.10
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	45.6	30.1	18.7 12.3
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	1.35		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	1.61		
电机重量 (无制动器) Weight(No brake)		m	kg	3.0		
电机重量 (带制动器) Weight(With brake)		m _b	kg	4.0		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-3R833-E VC***-00733-E		



图例
KEY

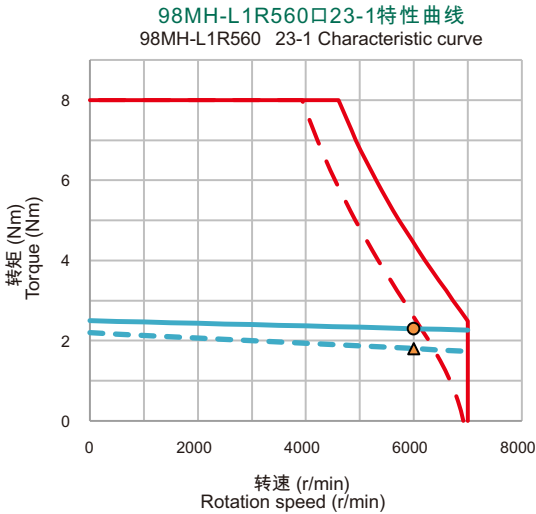
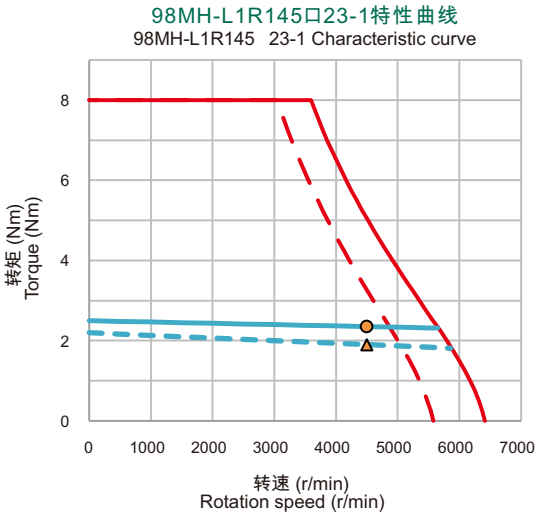
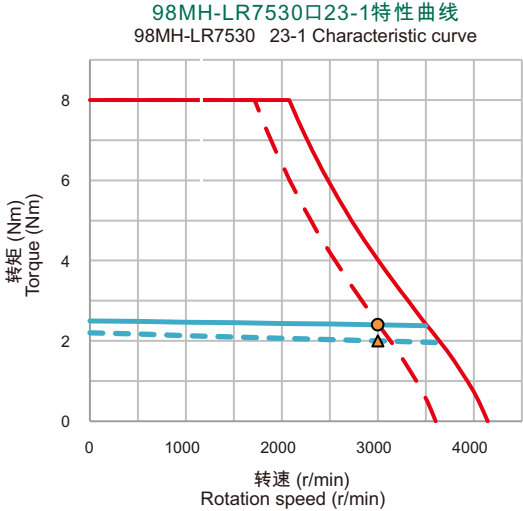
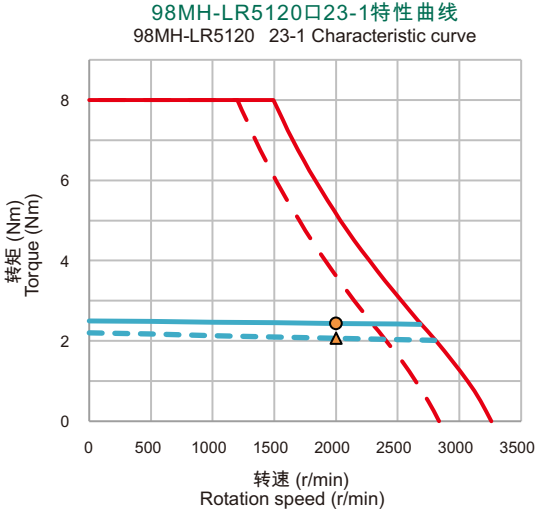
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

98MH-L-1技术数据-220VAC

98MH-L-1Technical data -220VAC

电机型号 Motor type			98MH-LR 5120口23-1	98MH-LR 7530口23-1	98MH-L1R 145口23-1	98MH-L1R 560-口23-1
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	2.5		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	2.6	3.3	5.2 6.4
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	2.2		
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	2.3	2.9	4.5 5.6
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.51	0.75	1.11 1.45
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	2.43	2.40	2.35 2.30
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.6	3.2	4.9 5.9
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	178	200	186 196
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.43	0.63	0.90 1.13
额定转速 Speed		n _N	r/min	2000	3000	4500 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	2.07	2.00	1.90 1.80
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.2	2.7	3.9 4.6
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	171	193	180 189
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	7000		
峰值扭矩 Peak torque		M _{max}	Nm	8.0		
峰值电流 Peak current		I _{max}	Arms	8.5	10.8	16.7 20.7
峰值扭矩转折点 (400VAC) Peak torque turning point (400VAC)		n _{nee}	r/min	1450	2050	3550 4600
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.95	0.75	0.48 0.39
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	67	53	34 27
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	7.71	4.81	1.95 1.25
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	30.1	18.7	7.79 5.06
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	1.35		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	1.61		
电机重量 (无制动器) Weight(No brake)		m	kg	3.0		
电机重量 (带制动器) Weight(With brake)		m _b	kg	4.0		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-00323-E		VC***-00623-E



图例
KEY

- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

 P_N - 100K

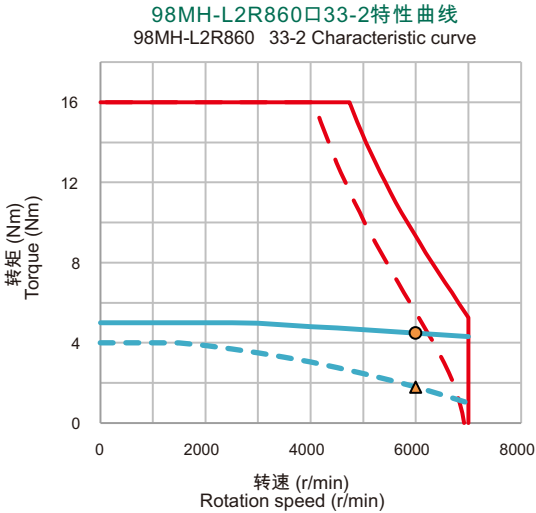
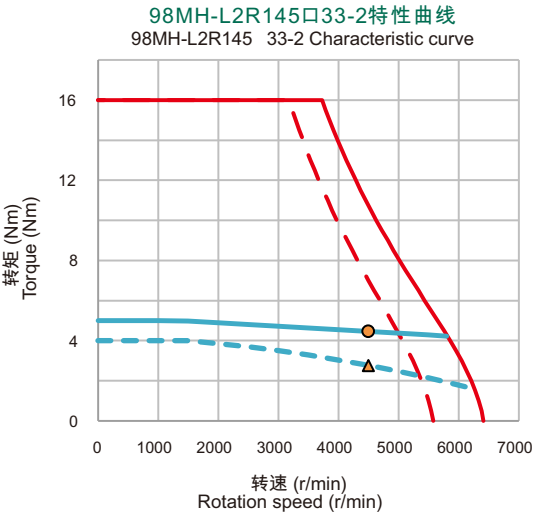
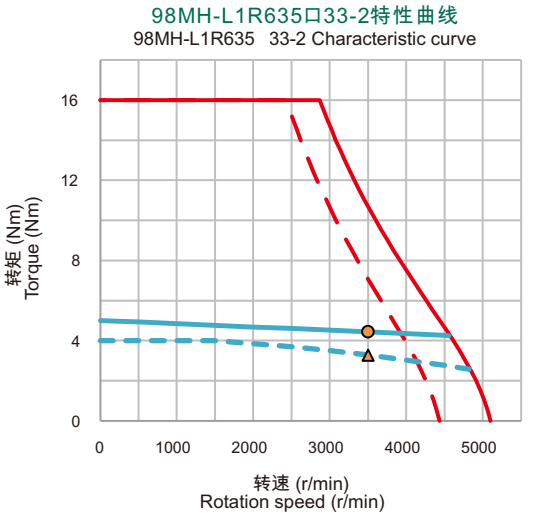
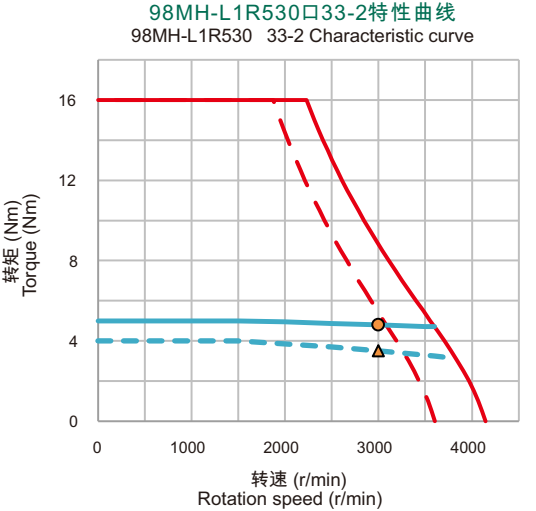
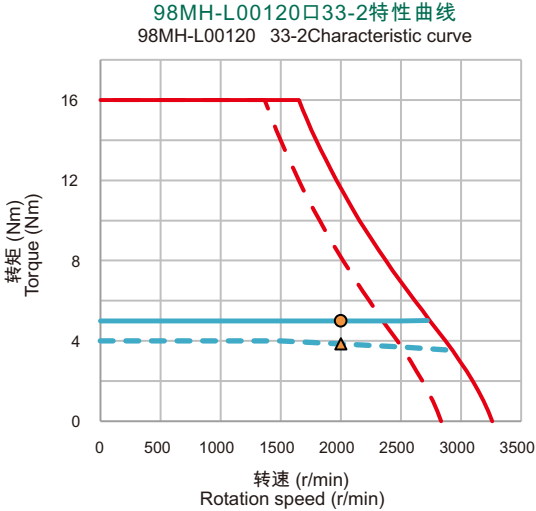
 S₁ @ 60K

 P_N - 60K

98MH-L-2技术数据-380VAC

98MH-L-2Technical data -380VAC

电机型号 Motor type			98MH-L0 0120 口 33-2	98MH-L1R 530 口 33-2	98MH-L1R 635 口 33-2	98MH-L2R 145 口 33-2	98MH-L2R 860 口 33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	5.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	2.6	3.3	4.1	5.2	6.4
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	4.0				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	2.1	2.7	3.3	4.1	5.1
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.05	1.51	1.62	2.10	2.83
额定转速 Speed		n _N	r/min	2000	3000	3500	4500	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	5.00	4.80	4.43	4.46	4.50
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.6	3.2	3.6	4.6	5.8
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	346	390	360	363	386
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.81	1.10	1.20	1.30	1.12
额定转速 Speed		n _N	r/min	2000	3000	3500	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.86	3.50	3.28	2.76	1.79
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.0	2.3	2.7	2.9	2.3
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	328	370	345	343	357
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	7000				
峰值转矩 Peak torque		M _{max}	Nm	16.0				
峰值电流 Peak current		I _{max}	Arms	8.5	10.8	13.3	16.7	20.7
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1350	1850	2400	3150	4050
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.90	1.50	1.22	0.97	0.78
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	134	105	86	68	55
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	11.9	7.42	4.78	3.01	1.93
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	60.3	37.3	24.6	15.6	10.1
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	2.42				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	2.68				
电机重量 (无制动器) Weight(No brake)		m	kg	4.5				
电机重量 (带制动器) Weight(With brake)		m _b	kg	5.5				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-3R833-E		VC***-00733-E		



图例
KEY

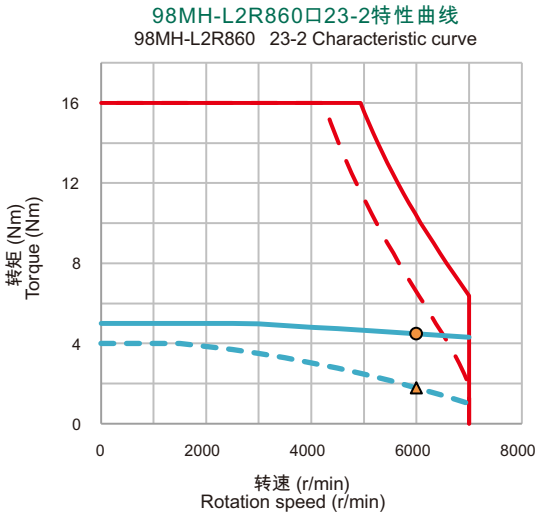
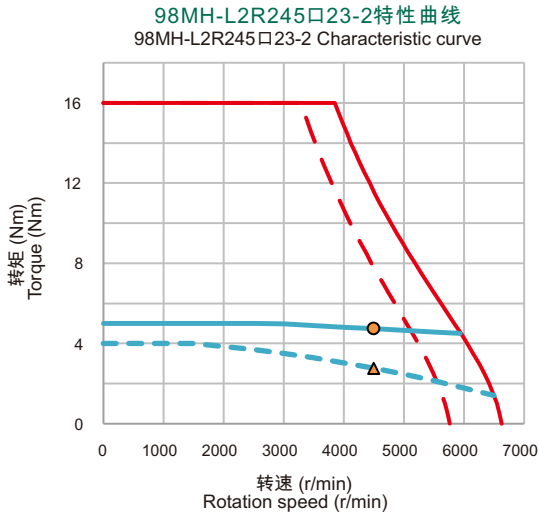
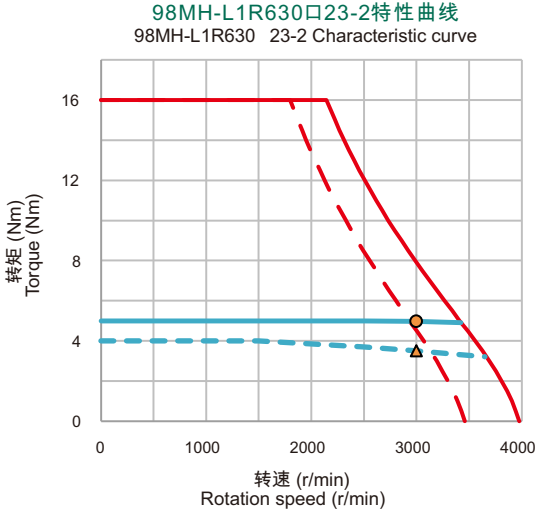
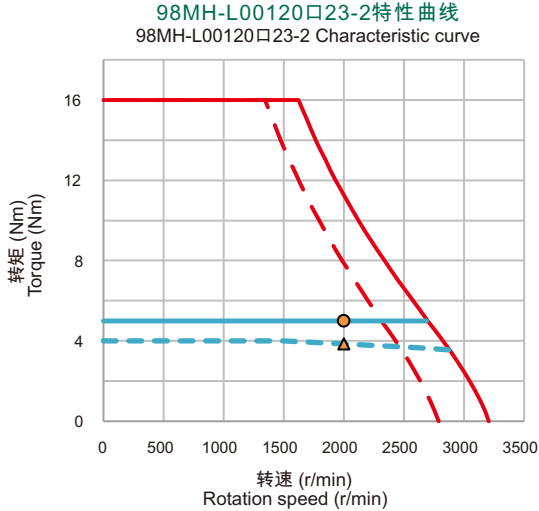
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

98MH-L-2技术数据-220VAC

98MH-L-2Technical data -220VAC

电机型号 Motor type			98MH-L0 0120口23-2	98MH-L1R 630口23-2	98MH-L2R 245口23-2	98MH-L2R 860口23-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	5.0			
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	5.2	6.4	10.7	13.4
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	4.0			
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	4.1	5.1	8.5	10.7
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.05	1.56	2.23	2.82
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	5.00	4.97	4.73	4.49
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	5.2	6.4	10.1	12.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	176	204	178	185
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.81	1.10	1.30	1.12
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.86	3.50	2.76	1.79
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	4.0	4.5	5.9	4.8
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	167	192	166	171
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	7000			
峰值扭矩 Peak torque		M _{max}	Nm	16.0			
峰值电流 Peak current		I _{max}	Arms	16.7	20.7	34.5	43.2
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1600	2100	3850	4900
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	0.97	0.78	0.47	0.37
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	68	55	33	26
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.01	1.93	0.73	0.46
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	15.6	10.1	3.65	2.33
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	2.42			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	2.68			
电机重量 (无制动器) Weight(No brake)		m	kg	4.5			
电机重量 (带制动器) Weight(With brake)		m _b	kg	5.5			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00623-E	VC***-01223-E		



图例
KEY

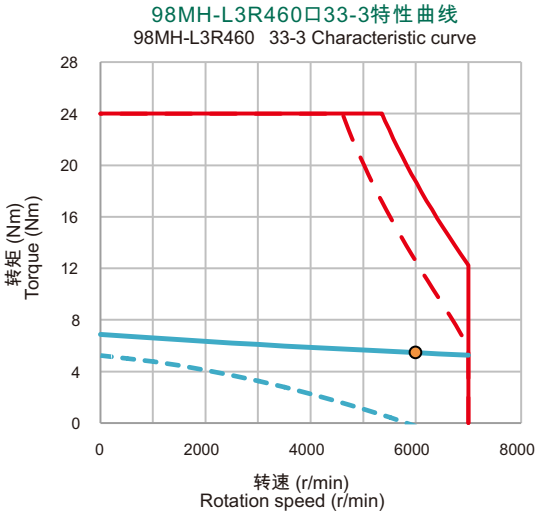
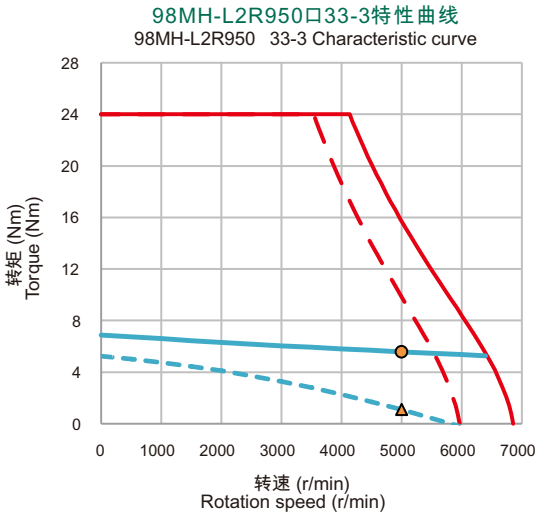
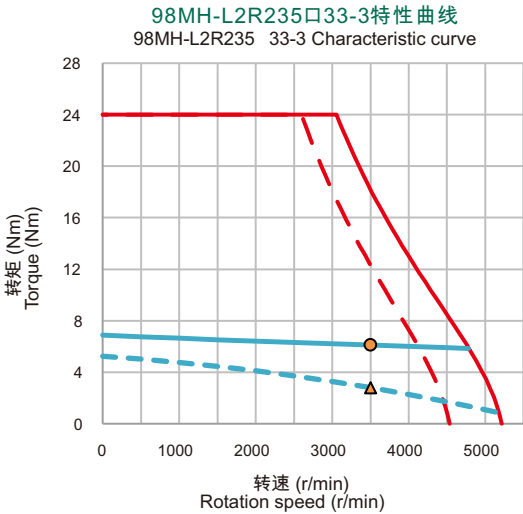
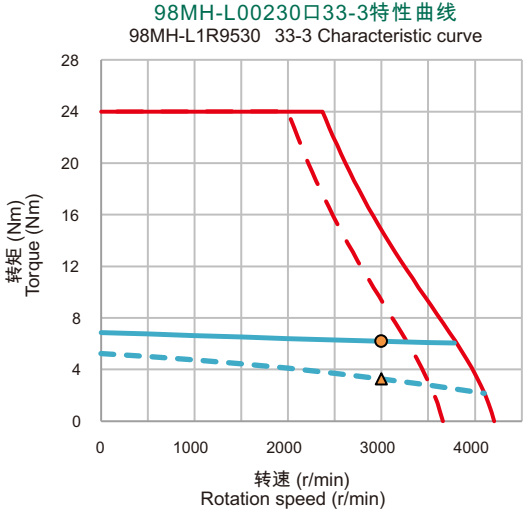
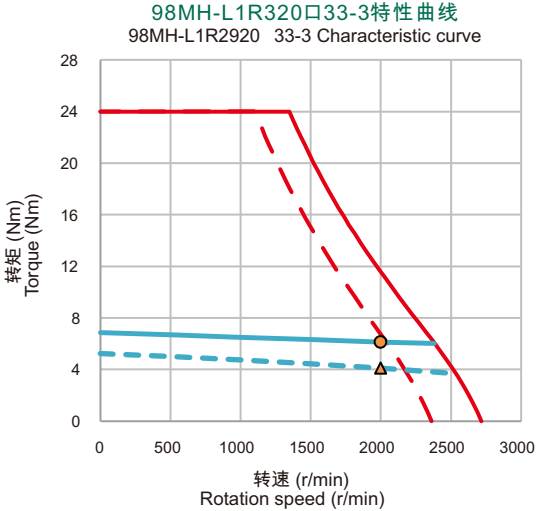
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

98MH-L-3技术数据-380VAC

98MH-L-3 Technical data -380VAC

电机型号 Motor type			98MH-L1R 320 口 33-3	98MH-L0 0230 口 33-3	98MH-L2R 235 口 33-3	98MH-L2R 950 口 33-3	98MH-L3R 460 口 33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	6.9				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	3.0	4.6	5.7	7.5	9.5
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	5.2				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	2.2	3.5	4.3	5.7	7.2
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.29	1.95	2.24	2.93	3.42
额定转速 Speed		n _N	r/min	2000	3000	3500	5000	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	6.14	6.20	6.10	5.60	5.45
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	2.7	4.1	5.1	6.1	7.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	393	369	343	363	341
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.86	1.03	1.02	0.58	
额定转速 Speed		n _N	r/min	2000	3000	3500	5000	
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	4.10	3.27	2.79	1.10	
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	1.8	2.2	2.3	1.2	
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	372	346	321	339	
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	7000				
峰值转矩 Peak torque		M _{max}	Nm	24.0				
峰值电流 Peak current		I _{max}	Arms	10.6	16.4	20.4	26.8	34.0
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1100	2000	2600	3500	4600
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.32	1.50	1.21	0.92	0.72
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	161	104	84	64	50
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	10.7	4.35	2.78	1.68	1.05
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	55.3	23.0	15.0	8.66	5.40
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	3.49				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	3.75				
电机重量 (无制动器) Weight(No brake)		m	kg	6.0				
电机重量 (带制动器) Weight(With brake)		m _b	kg	7.0				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-3R833-E	VC***-00733-E	VC***-01233-E		



图例
KEY

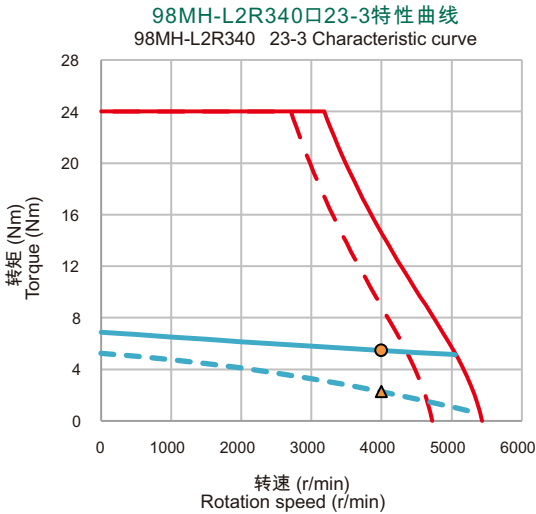
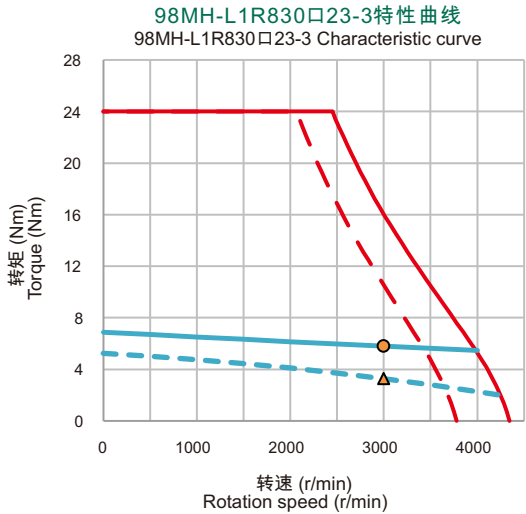
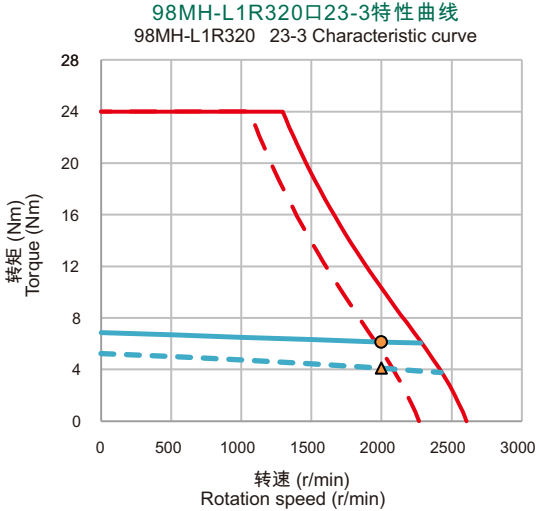
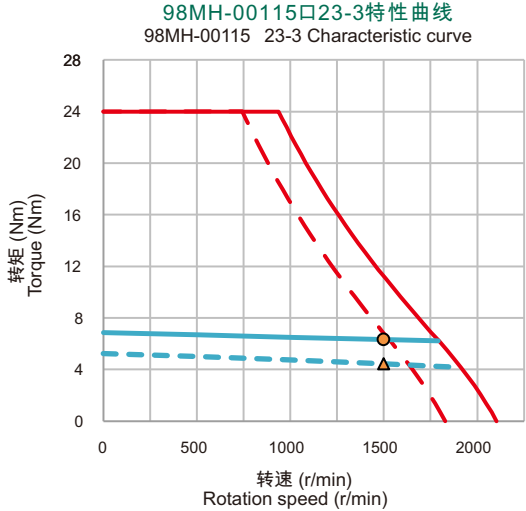
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

98MH-L-3技术数据-220VAC

98MH-L-3 Technical data -220VAC

电机型号 Motor type			98MH-0 0115口23-3	98MH-L1R 320口23-3	98MH-L1R 830口23-3	98MH-L2R 340口23-3
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value		
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	6.9		
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	4.6	5.7	9.5 11.9
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	5.2		
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	3.5	4.3	7.2 9.0
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	0.99	1.29	1.82 2.29
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	6.32	6.14	5.80 5.47
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	4.2	5.1	8.0 9.4
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	197	204	177 185
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.70	0.86	1.03 0.95
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	4.45	4.10	3.27 2.27
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.0	3.4	4.5 3.9
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	186	193	168 174
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	7000		
峰值扭矩 Peak torque		M _{max}	Nm	24.0		
峰值电流 Peak current		I _{max}	Arms	16.4	20.4	34.0 42.4
峰值扭矩转折点 (400VAC) Peak torque turning point (400VAC)		n _{nee}	r/min	900	1300	2450 3150
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.50	1.21	0.72 0.58
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	104	84	50 40
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	4.35	2.78	1.05 0.67
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	23.0	15.0	5.40 3.45
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	3.49		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	3.75		
电机重量 (无制动器) Weight(No brake)		m	kg	6.0		
电机重量 (带制动器) Weight(With brake)		m _b	kg	7.0		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	8.2		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.68 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	16.4 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-00623-E		VC***-01223-E



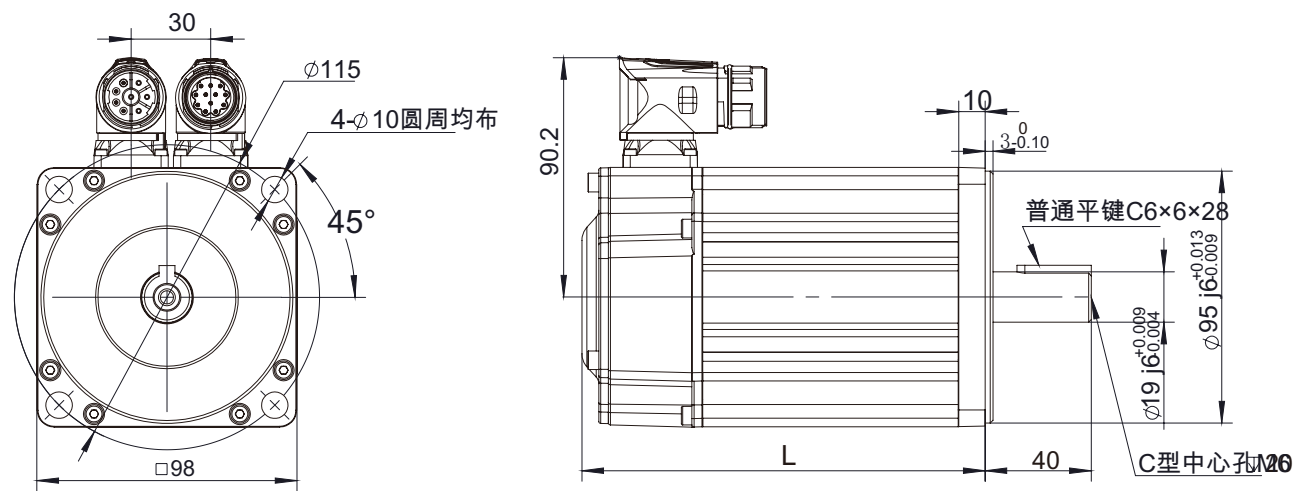
图例
KEY

--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S_i @ 100K

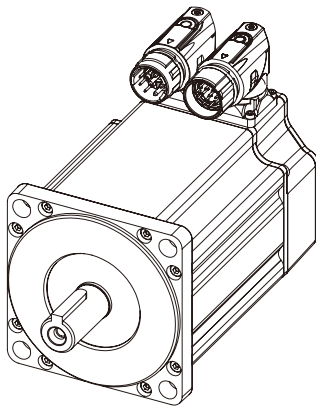
● P_N - 100K
--- S_i @ 60K
▲ P_N - 60K

98MH-L-□机械尺寸

98MH-L-□Mechanical dimensions



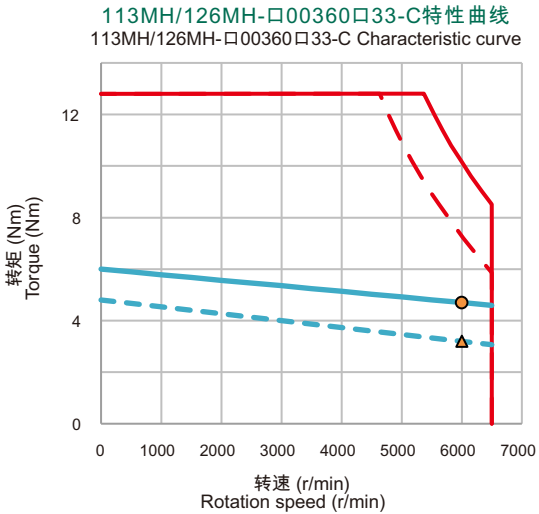
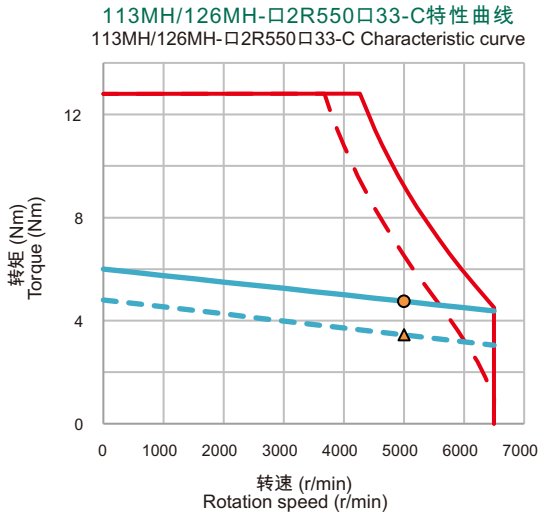
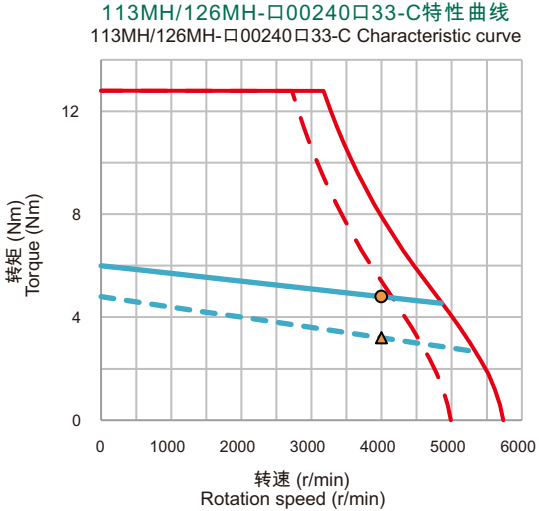
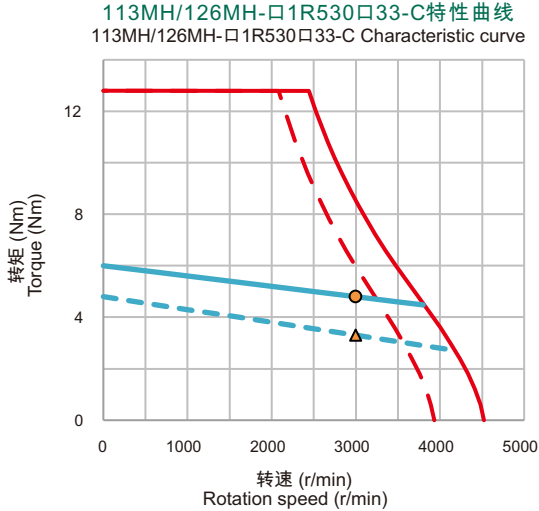
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
98MH-L-1	127	175
98MH-L-2	152	200
98MH-L-3	177	225



113MH-□-C/126MH-□-C技术数据-380VAC

113MH- □-C/126MH- □-C Technical data -380VAC

电机型号 Motor type			113MH/ 126MH-□1R 530□33-C	113MH/ 126MH-□0 0240□33-C	113MH/ 126MH-□2R 550□33-C	113MH/ 126MH-□0 0360□33-C
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value		
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	380 ... 480		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	6.0		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	4.3	5.4	7.2 8.9
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	4.8		
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	3.4	4.3	5.7 7.0
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.51	2.01	2.49 2.95
额定转速 Speed		n _N	r/min	3000	4000	5000 6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	4.8	4.8	4.75 4.7
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	3.4	4.3	5.7 7.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	374	387	362 347
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.04	1.34	1.81 2.01
额定转速 Speed		n _N	r/min	3000	4000	5000 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.3	3.2	3.45 3.2
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	2.3	2.9	4.1 4.7
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	344	355	338 321
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500		
峰值扭矩 Peak torque		M _{max}	Nm	12.8		
峰值电流 Peak current		I _{max}	Arms	9.4	11.9	15.8 19.6
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{k,nee}	r/min	2050	2700	3650 4600
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.41	1.11	0.84 0.68
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	97	76	58 46
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	5.55	3.47	2.08 1.33
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	44.4	27.6	15.8 10.3
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	2.05 (L) / 7.18 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	2.50 (L) / 7.63 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	5.5 (L) / 5.7 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	7.5 (L) / 7.7 (M)		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.81 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-00733-E		VC***-01233-E



图例
KEY

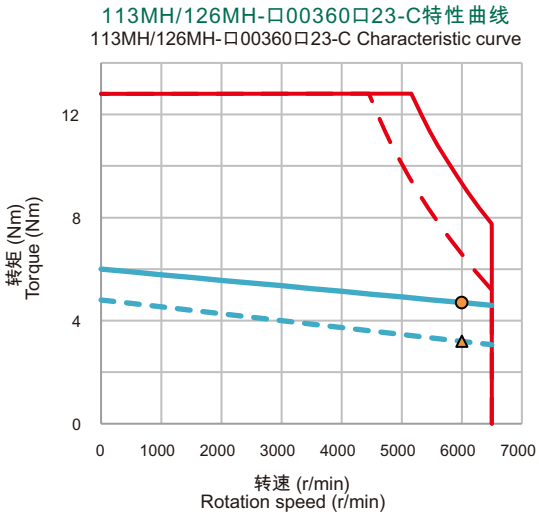
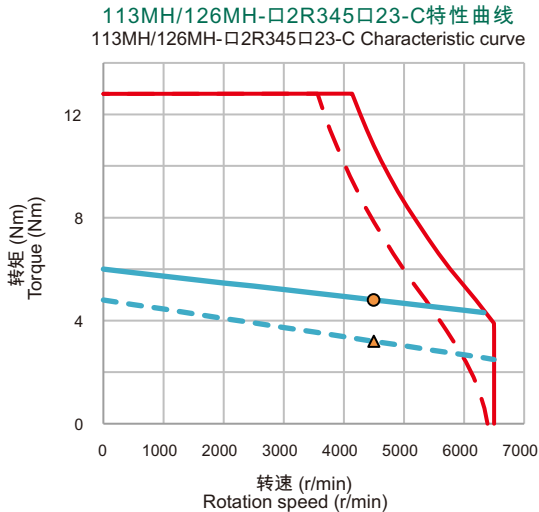
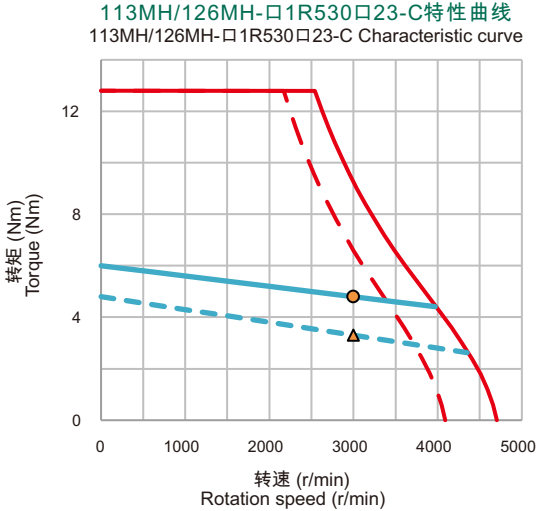
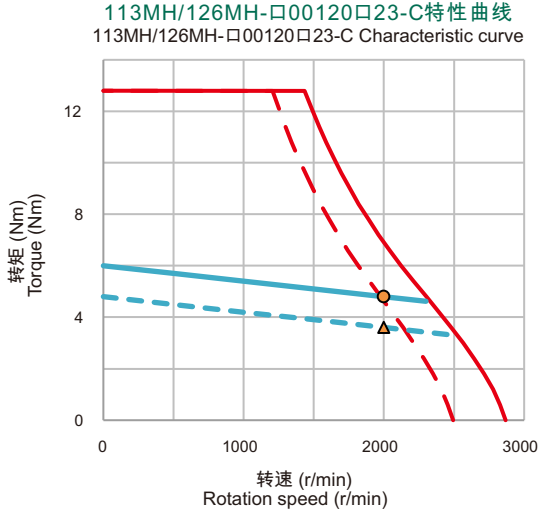
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

113MH-□-C/126MH-□-C技术数据-220VAC

113MH-□-C/126MH-□-C Technical data -220VAC

电机型号 Motor type			113MH/ 126MH-□ 0 0120 □ 23-C	113MH/ 126MH-□ 1R 530 □ 23-C	113MH/ 126MH-□ 2R 345 □ 23-C	113MH/ 126MH-□ 0 0360 □ 23-C	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	6.0			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	5.4	8.9	13.9	17.1
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	4.8			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	4.3	5.7	11.0	13.5
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.01	1.51	2.26	2.95
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	4.8	4.8	4.8	4.7
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	4.3	7.1	11.1	13.4
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	202	180	169	180
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.75	1.04	1.51	2.01
额定转速 Speed		n _N	r/min	2000	3000	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	3.6	3.3	3.2	3.2
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.2	3.9	7.3	9.0
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	188	165	155	167
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500			
峰值扭矩 Peak torque		M _{max}	Nm	12.8			
峰值电流 Peak current		I _{max}	Arms	11.9	19.6	30.6	37.7
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{knee}	r/min	1400	2500	4100	5150
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.11	0.68	0.43	0.35
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	76	46	30	24
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.47	1.33	0.535	0.345
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	27.6	10.3	4.20	2.78
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	2.05 (L) / 7.18 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	2.50 (L) / 7.63 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	5.5 (L) / 5.7 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	7.5 (L) / 7.7 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00623-E	VC***-01223-E	VC***-01523-E	非标 non-standard



图例
KEY

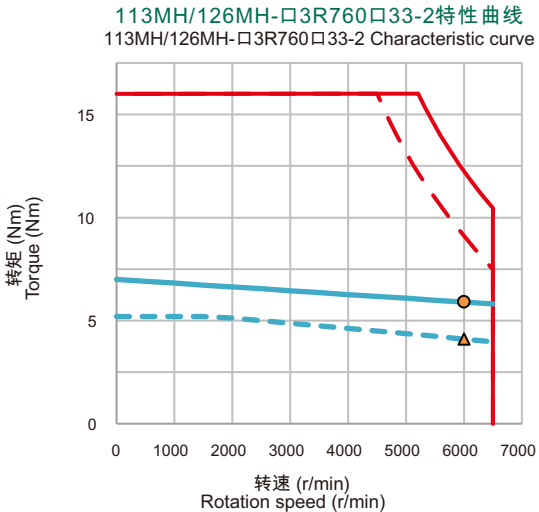
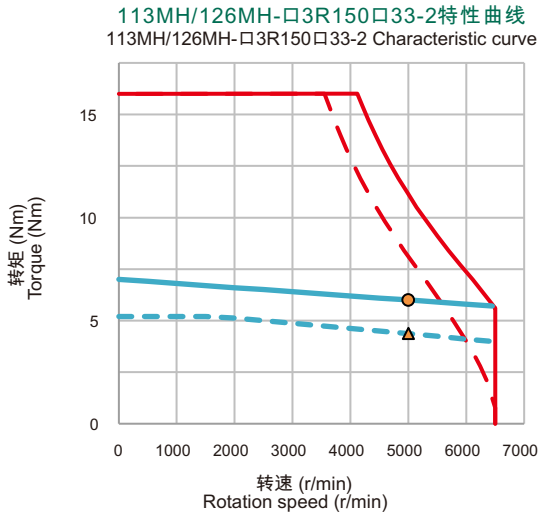
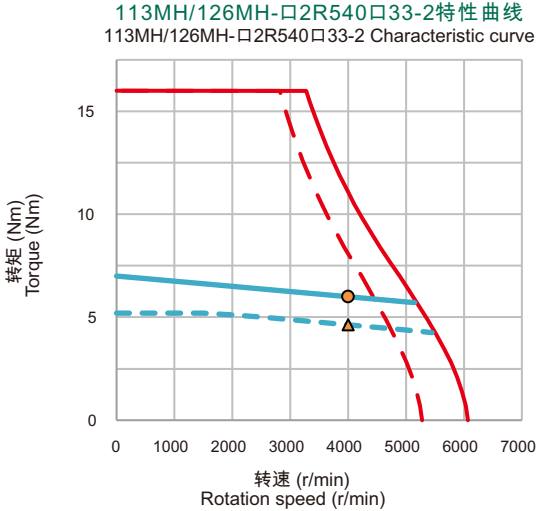
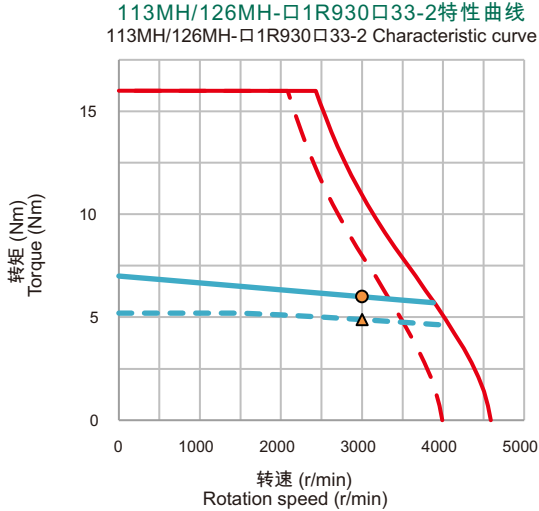
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

113MH-□-2/126MH-□-2技术数据-380VAC

113MH-□-2/126MH-□-2 Technical data -380VAC

电机型号 Motor type			113MH/ 126MH-□ 1R 930□33-2	113MH/ 126MH-□ 2R 540□33-2	113MH/ 126MH-□ 3R 150□33-2	113MH/ 126MH-□ 3R 760□33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	7.0			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	5.0	6.6	8.2	10.3
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	5.2			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	3.7	4.9	6.0	7.6
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.88	2.51	3.14	3.71
额定转速 Speed		n _N	r/min	3000	4000	5000	6000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	6.0	6.0	6.0	5.9
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	4.3	5.7	7.1	8.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	363	363	362	345
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.54	1.93	2.30	2.58
额定转速 Speed		n _N	r/min	3000	4000	5000	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	4.9	4.6	4.4	4.1
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.5	4.3	5.1	6.0
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	345	342	339	321
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500			
峰值扭矩 Peak torque		M _{max}	Nm	16.0			
峰值电流 Peak current		I _{max}	Arms	12.7	16.8	20.8	26.0
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{k,nee}	r/min	2050	2800	3550	4500
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.39	1.05	0.85	0.68
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	95	72	58	46
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.49	2.10	1.34	0.851
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	34.5	19.7	12.8	8.21
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	2.48 (L) / 7.61 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	2.93 (L) / 8.06 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	6.2 (L) / 8.2 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	6.6 (L) / 8.6 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00733-E		VC***-01233-E	



图例
KEY

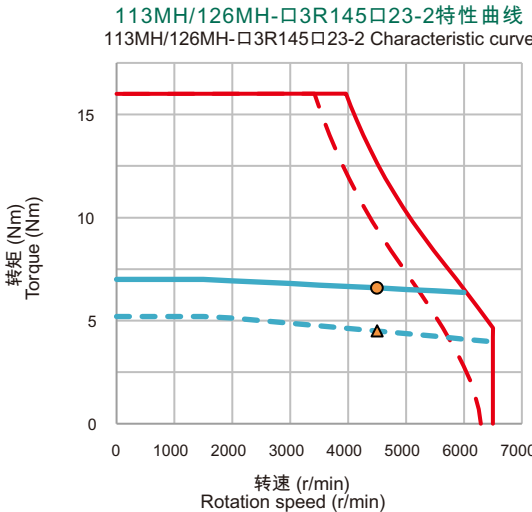
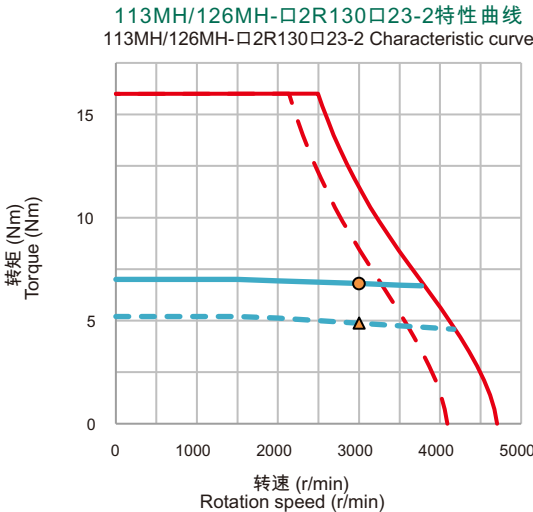
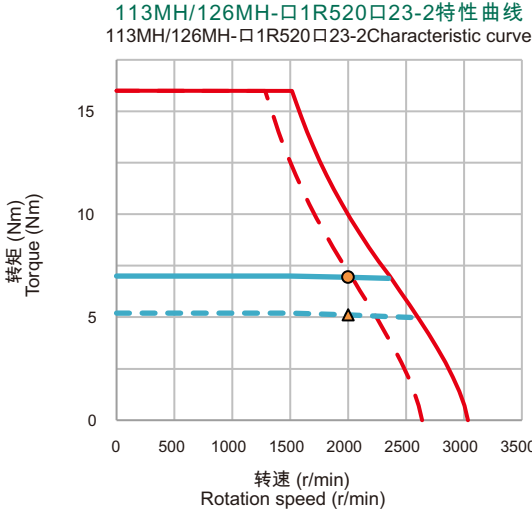
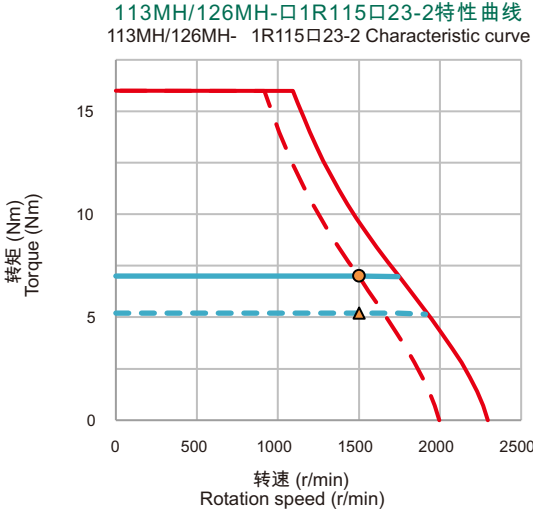
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

113MH-口-2/126MH-口-2技术数据-220VAC

113MH-口-2/126MH-口-2 Technical data -220VAC

电机型号 Motor type			113MH/ 126MH-口 1R 115口 23-2	113MH/ 126MH-口 1R 520口 23-2	113MH/ 126MH-口 2R 130口 23-2	113MH/ 126MH-口 3R 145口 23-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	7.0			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	5.0	6.6	10.3	15.8
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	5.2			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	3.7	4.9	7.6	11.6
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.10	1.45	2.14	3.11
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	7.0	6.9	6.8	6.6
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	5.0	6.5	10.0	14.9
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	200	197	184	174
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	0.82	1.07	1.54	2.12
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	5.2	5.1	4.9	4.5
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.7	4.8	7.1	10.1
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	183	180	169	160
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500			
峰值转矩 Peak torque		M _{max}	Nm	16.0			
峰值电流 Peak current		I _{max}	Arms	12.7	16.8	26.0	40.0
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{k,nee}	r/min	1050	1500	2450	3950
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.39	1.05	0.68	0.44
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	95	72	46	30
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.49	2.10	0.851	0.348
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	34.5	19.7	8.21	3.47
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	2.48 (L) / 7.61 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	2.93 (L) / 8.06 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	6.2 (L) / 8.2 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	6.6 (L) / 8.6 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-00623-E	VC***-01223-E	VC***-01523-E	



图例
KEY

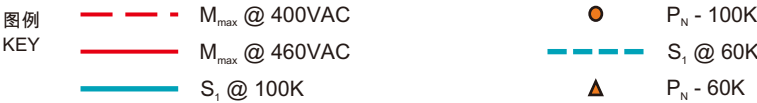
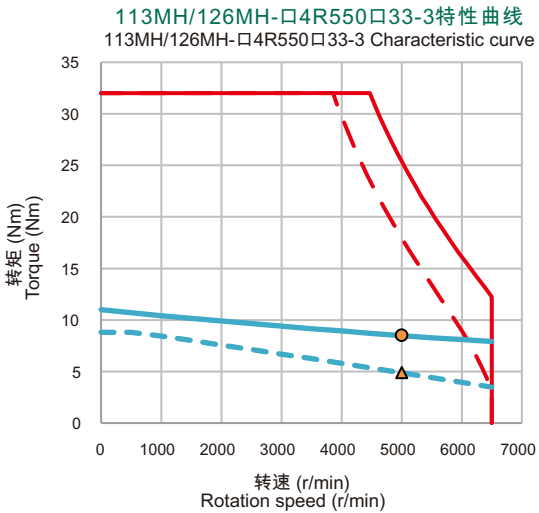
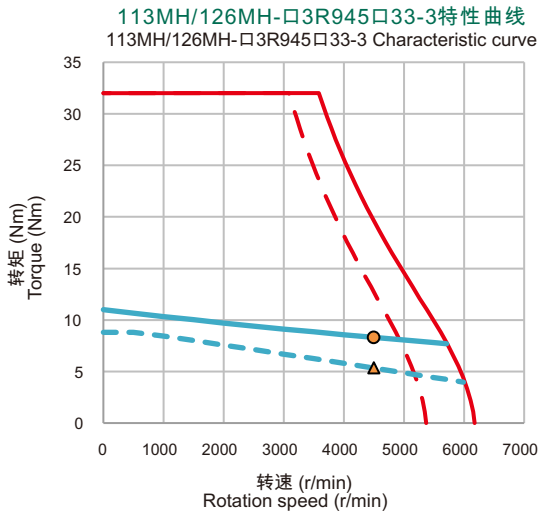
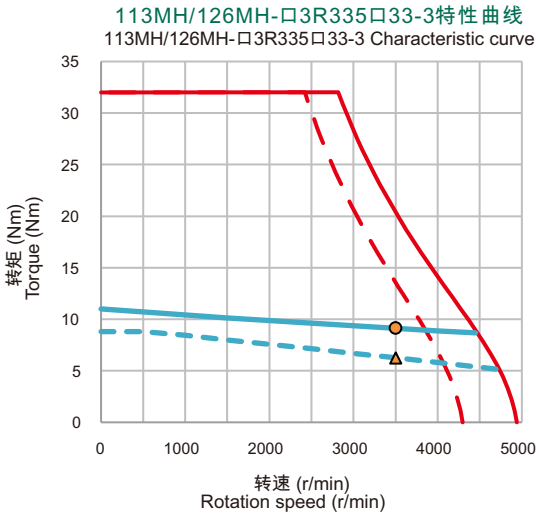
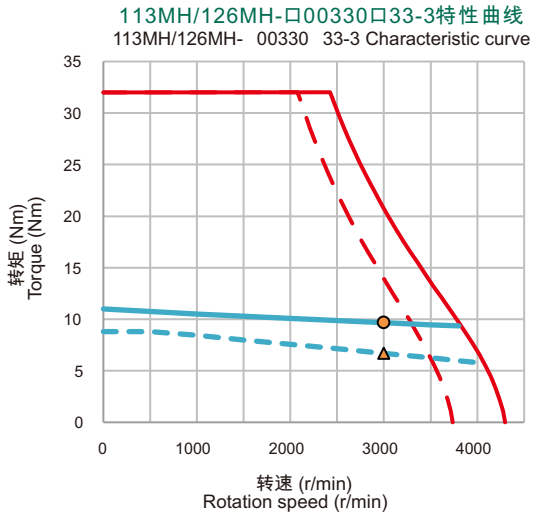
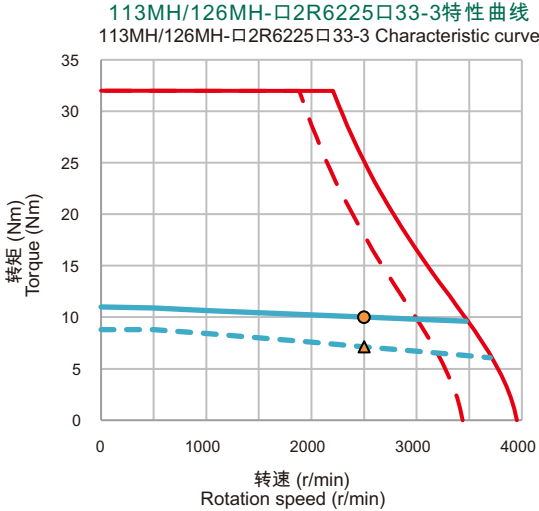
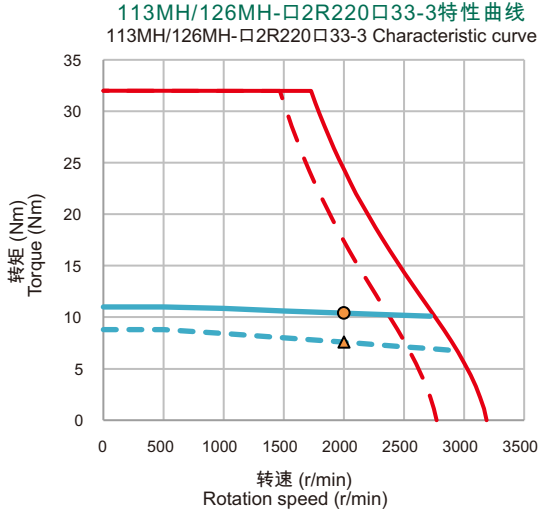
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

113MH-口-3/126MH-口-3技术数据-380VAC

113MH-口-3/126MH-口-3 Technical data -380VAC

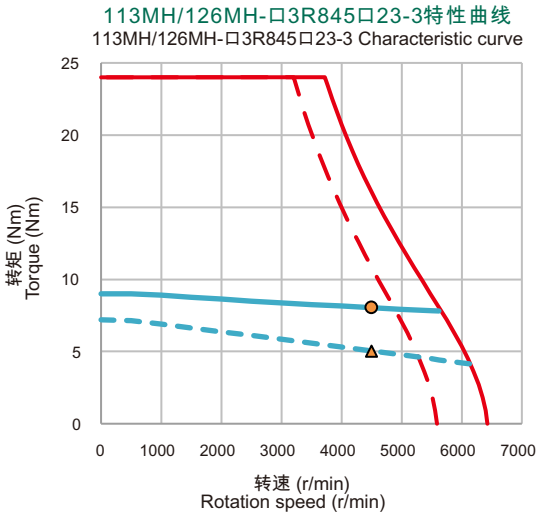
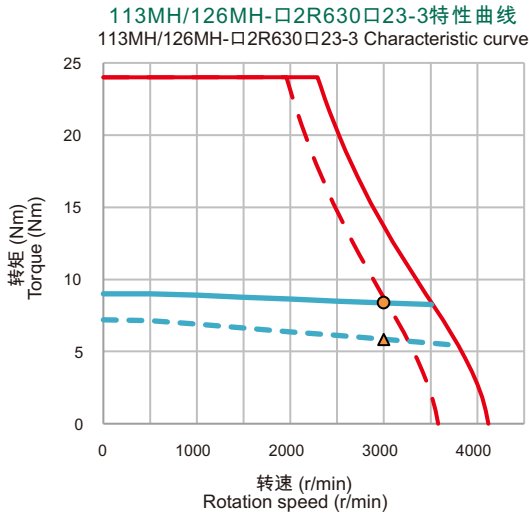
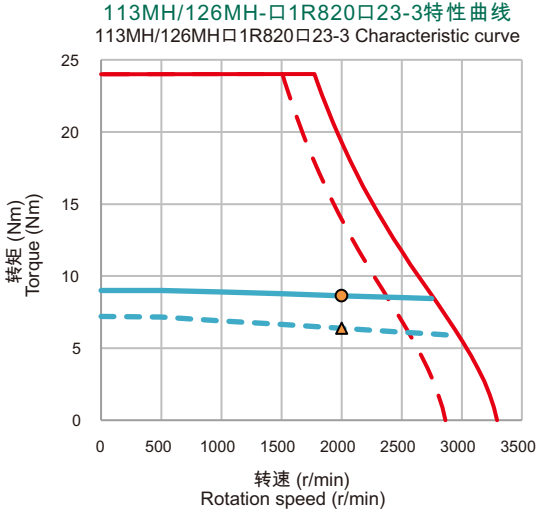
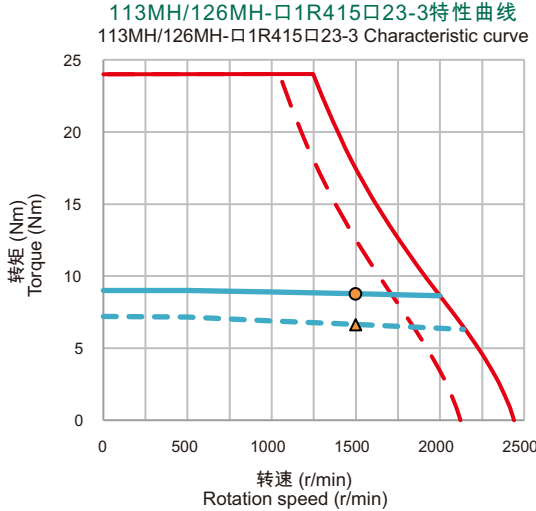
电机型号 Motor type			113MH/126MH-□2R 220□33-3	113MH/126MH-□2R 625□33-3	113MH/126MH-□00 330□33-3	113MH/126MH-□3R 335□33-3	1113MH/126MH-□3R 945□33-3	113MH/126MH-□4R 55033-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	11.0					
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	5.5	6.8	7.4	8.5	10.6	13.1
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	8.8					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	4.3	5.4	5.8	6.7	8.4	10.3
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	2.18	2.62	3.02	3.34	3.91	4.45
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	4500	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	10.4	10.0	9.6	9.1	8.3	8.5
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	5.2	6.2	6.5	7.0	8.0	10.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	343	337	366	366	368	332
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.59	1.86	2.10	2.27	2.50	2.57
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	4500	5000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	7.6	7.1	6.7	6.2	5.3	4.9
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.7	4.3	4.4	4.7	5.0	5.7
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	322	318	346	347	351	314
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500					
峰值转矩 Peak torque		M _{max}	Nm	32.0					
峰值电流 Peak current		I _{max}	Arms	16.6	20.6	22.4	25.7	32.2	39.6
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1450	1850	2050	2400	3050	3850
电机数据 Motor data									
极数 No. of poles		Poles	8						
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.00	1.61	1.49	1.29	1.03	0.84
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	137	111	102	88	71	57
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.69	2.36	1.93	1.50	0.949	0.612
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	34.2	22.3	18.8	14.3	9.12	6.02
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	4.61 (L) / 16.1 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	5.06 (L) / 16.6 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	9.2 (L) / 10.4 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	11.2 (L) / 12.4 (M)					
制动器数据 Brake data									
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type							
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.81 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector		M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)							
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)							
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver		VC***-00733-E VC***-01233-E							



113MH-口-3/126MH-口-3技术数据-220VAC

113MH-口-3/126MH-口-3 Technical data -220VAC

电机型号 Motor type			113MH/ 126MH-口 1R 41523-3	113MH/ 126MH-口 1R 820 口 23-3	113MH/ 126MH-口 2R 630 口 23-3	113MH/ 126MH-口 3R 845 口 23-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{b-100K}	Nm	9.0			
堵转电流 (100K) Locked rotor current (100K)		I _{b-100K}	Arms	6.9	9.3	11.6	18.1
堵转转矩 (60K) locked torque (60K)		M _{b-60K}	Nm	7.2			
堵转电流 (60K) Locked rotor current (60K)		I _{b-60K}	Arms	5.4	7.3	9.1	14.3
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.38	1.80	2.64	3.77
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	8.8	8.6	8.4	8.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	6.7	8.9	10.8	16.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	178	171	198	185
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.04	1.34	1.82	2.36
额定转速 Speed		n _N	r/min	1500	2000	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	6.6	6.4	5.8	5.0
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	5.0	6.5	7.4	9.9
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	166	160	185	172
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500			
峰值扭矩 Peak torque		M _{max}	Nm	24.0			
峰值电流 Peak current		I _{max}	Arms	19.1	25.7	32.2	50.2
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{knee}	r/min	1250	1750	2250	3700
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.31	0.97	0.78	0.50
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	90	66	53	34
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	2.19	1.23	0.778	0.315
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	19.5	10.7	6.84	2.81
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	3.55 (L) / 11.9 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	4.00 (L) / 12.4 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	7.7 (L) / 8.5 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	9.7 (L) / 10.5 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	0.81 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-01223-E			非标 non-standard



图例
KEY

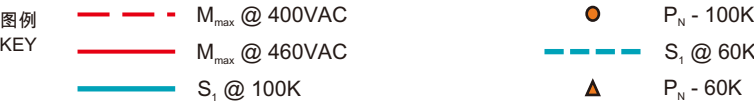
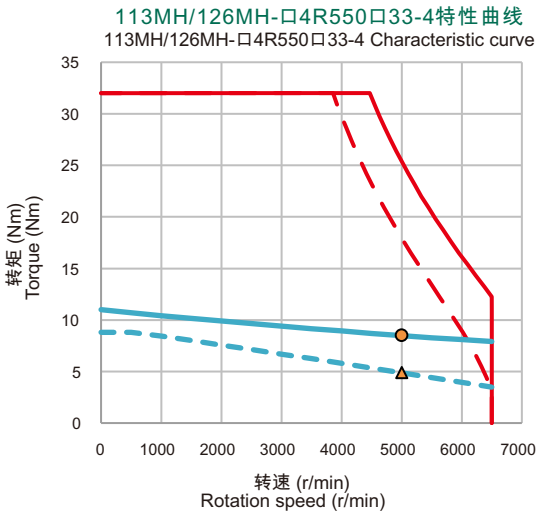
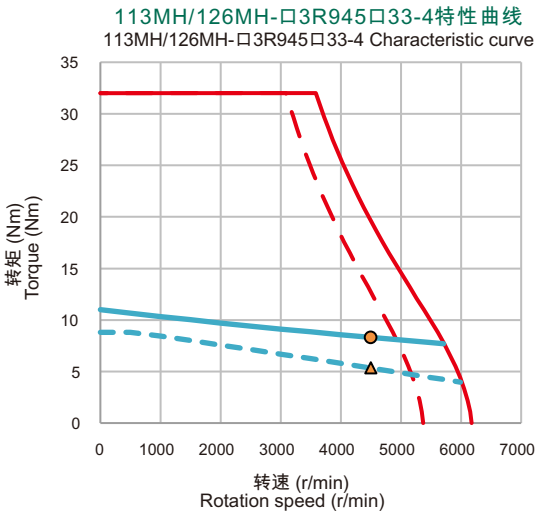
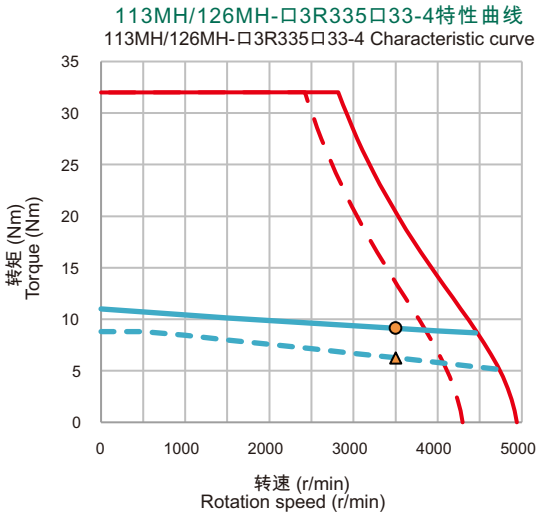
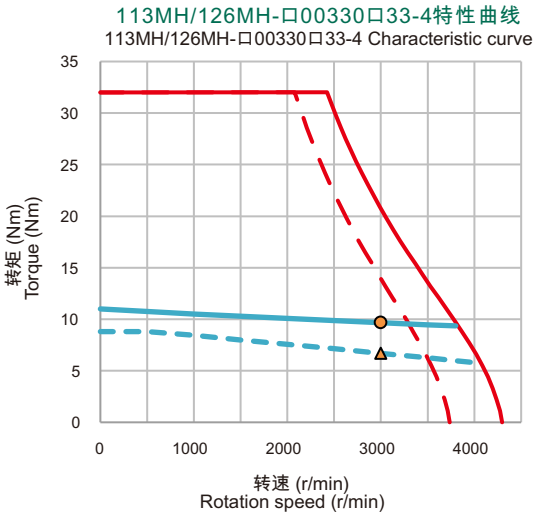
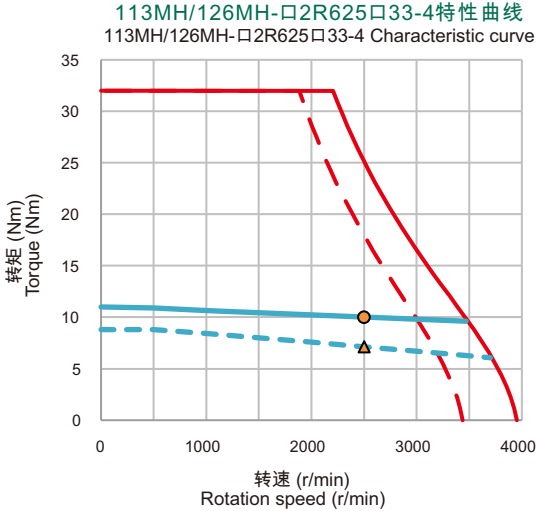
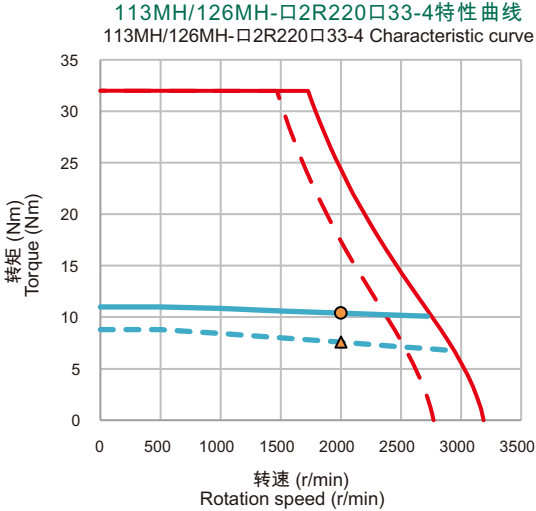
--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

113MH-口-4/126MH-口-4技术数据-380VAC

113MH-口-4/126MH-口-4 Technical data ~380VAC

电机型号 Motor type			113MH/126 MH-□2R 220□33-4	113MH/126 MH-□2R 625□33-4	113MH/126 MH-□00 330□33-4	113MH/126 MH-□3R 335□33-4	113MH/126 MH-□3R 945□33-4	1113MH/126 MH-□4R 550□33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	11.0					
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	5.5	6.8	7.4	8.5	10.6	13.1
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	8.8					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	4.3	5.4	5.8	6.7	8.4	10.3
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	2.18	2.62	3.02	3.34	3.91	4.45
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	4500	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	10.4	10.0	9.6	9.1	8.3	8.5
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	5.2	6.2	6.5	7.0	8.0	10.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	343	337	366	366	368	332
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.59	1.86	2.10	2.27	2.50	2.57
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	4500	5000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	7.6	7.1	6.7	6.2	5.3	4.9
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.7	4.3	4.4	4.7	5.0	5.7
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	322	318	346	347	351	314
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500					
峰值转矩 Peak torque		M _{max}	Nm	32.0					
峰值电流 Peak current		I _{max}	Arms	16.6	20.6	22.4	25.7	32.2	39.6
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1450	1850	2050	2400	3050	3850
电机数据 Motor data									
极数 No. of poles		Poles	8						
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.00	1.61	1.49	1.29	1.03	0.84
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	137	111	102	88	71	57
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.69	2.36	1.93	1.50	0.949	0.612
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	34.2	22.3	18.8	14.3	9.12	6.02
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	4.61 (L) / 16.1 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	5.06 (L) / 16.6 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	9.2 (L) / 10.4 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	11.2 (L) / 12.4 (M)					
制动器数据 Brake data									
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)						
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver			VC***-00733-E			VC***-01233-E			

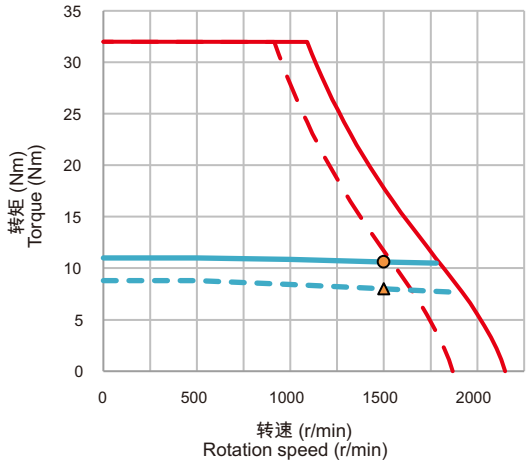


113MH-□-4/126MH-□-4技术数据-220VAC

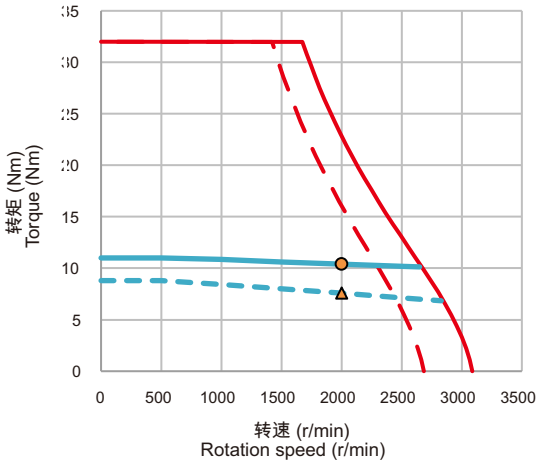
113MH-□-4/126MH-□-4 Technical data -220VAC

电机型号 Motor type			113MH/126 MH- □ 1R 715 □ 23-4	113MH/126 MH- □ 2R 220 □ 23-4	113MH/126 MH- □ 2R 725 □ 23-4	113MH/126 MH- □ 3R 130 □ 23-4	113MH/126 MH- □ 4R 445 □ 23-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	200 ... 250				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	11.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	7.4	10.6	13.1	16.6	22.0
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	8.8				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	5.8	8.4	10.3	13.1	17.3
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.67	2.18	2.67	3.14	4.43
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	10.6	10.4	10.2	10.0	9.4
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	7.1	10.1	12.1	15.1	18.8
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	195	176	176	164	182
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.26	1.59	1.86	2.10	2.50
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	8.0	7.6	7.1	6.7	5.3
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	5.3	7.2	8.3	10.0	10.4
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	184	166	165	154	170
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500				
峰值扭矩 Peak torque		M _{max}	Nm	32.0				
峰值电流 Peak current		I _{max}	Arms	22.4	32.2	39.6	50.2	66.4
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1050	1650	2100	2750	3700
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.49	1.03	0.84	0.66	0.50
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	102	71	57	45	34
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.93	0.949	0.612	0.384	0.230
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	18.8	9.12	6.02	3.74	2.14
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	4.61 (L) / 16.1 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	5.06 (L) / 16.6 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	9.2 (L) / 10.4 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	11.2 (L) / 12.4 (M)				
制动器数据 Brake data								
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	19.5 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector		M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)						
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver		VC***-00623-E			VC***-01223-E	非标 non-standard		

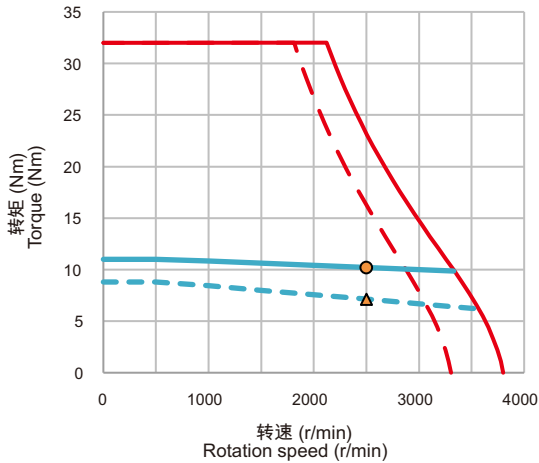
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113MH/126MH-□1R715□23-4 Characteristic curve



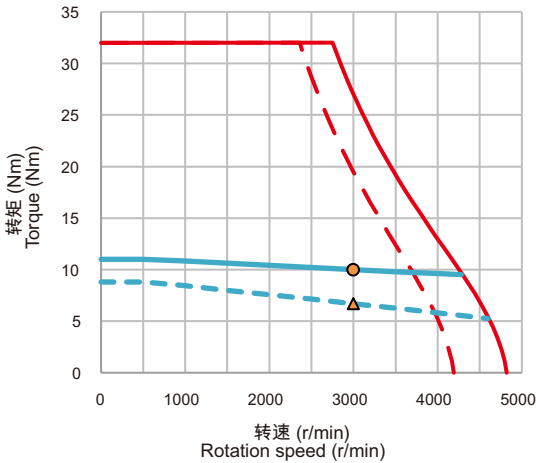
113MH/126MH-□2R220□23-4特性曲线
113MH/126MH-□2R220□23-4 Characteristic curve



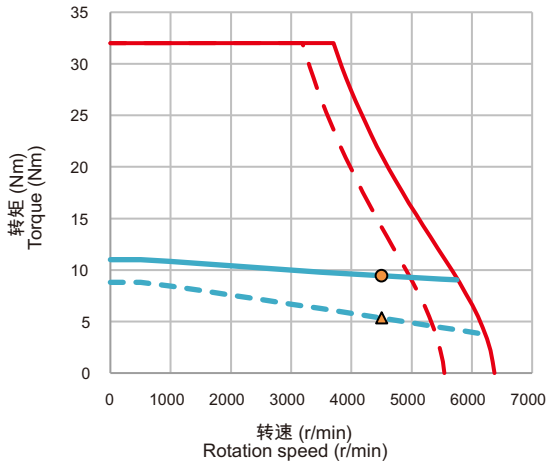
113MH/126MH-□2R725□23-4特性曲线
113MH/126MH-□2R725□23-4 Characteristic curve



113MH/126MH-□3R130□23-4特性曲线
113MH/126MH-□3R130□23-4 Characteristic curve



113MH/126MH-□4R445□23-4特性曲线
113MH/126MH-□4R445□23-4 Characteristic curve



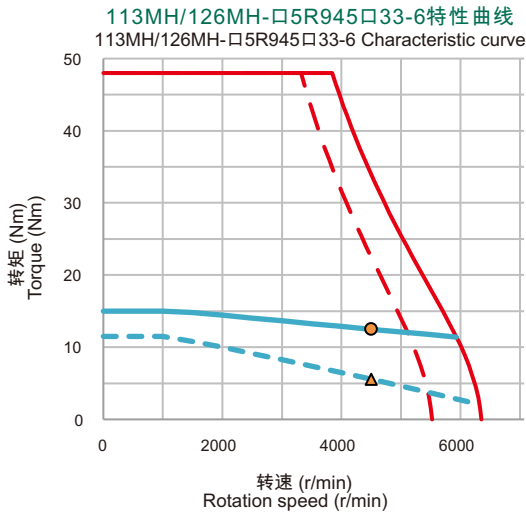
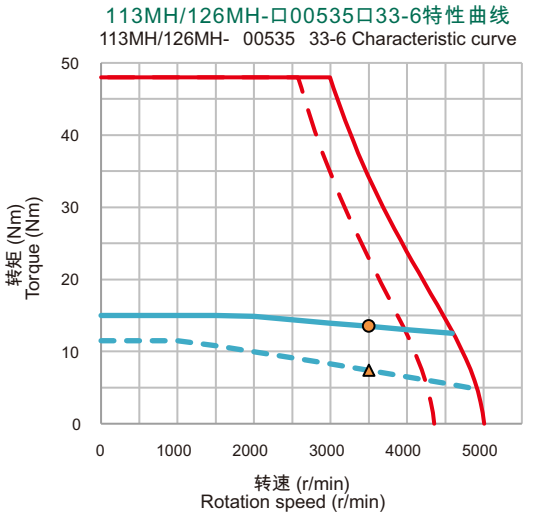
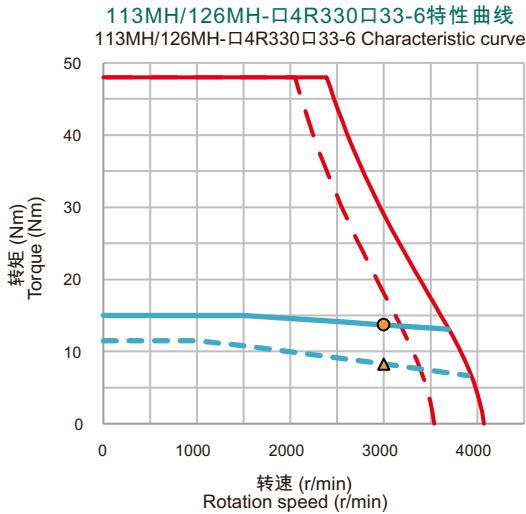
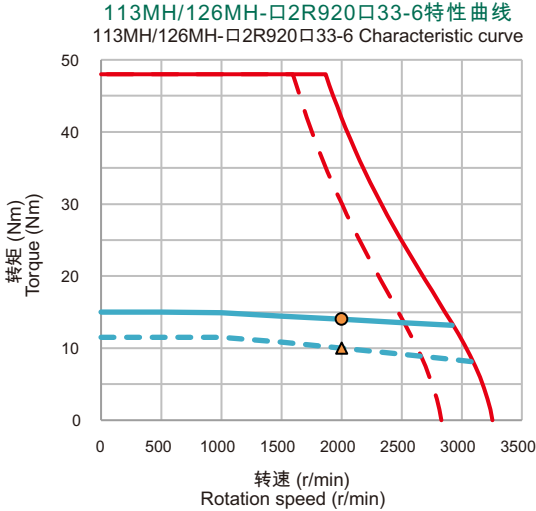
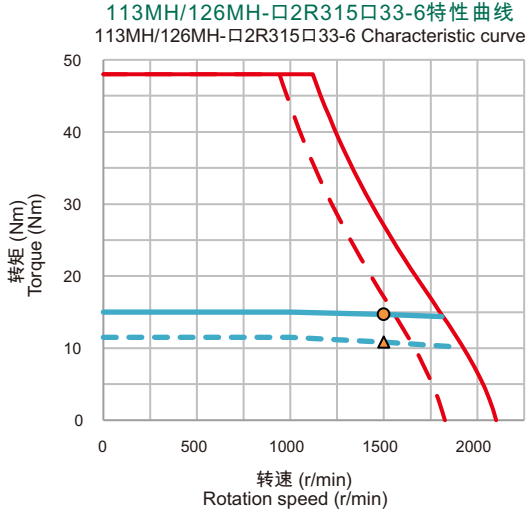
图例
KEY
- - - M_{max} @ 200VAC
—— M_{max} @ 230VAC
—— S₁ @ 100K

● P_N - 100K
- - - S₁ @ 60K
▲ P_N - 60K

113MH-□-6/126MH-□-6技术数据-380VAC

113MH-□-6/126MH-□-6 Technical data -380VAC

电机型号 Motor type			113MH/126 MH- □ 2R 315 □ 33-6	113MH/126 MH- □ 2R 920 □ 33-6	113MH/126 MH- □ 4R 330 □ 33-6	113MH/126 MH- □ 00 535 □ 33-6	113MH/126 MH- □ 5R 945 □ 33-6
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage	U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)	M _{0-100K}	Nm	15.0				
堵转电流 (100K) Locked rotor current (100K)	I _{0-100K}	Arms	5.0	7.8	9.7	11.9	15.2
堵转转矩 (60K) locked torque (60K)	M _{0-60K}	Nm	11.5				
堵转电流 (60K) Locked rotor current (60K)	I _{0-60K}	Arms	3.8	5.9	7.4	9.1	11.5
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)	P _{N-100K}	kW	2.31	2.93	4.30	4.95	5.89
额定转速 Speed	n _N	r/min	1500	2000	3000	3500	4500
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	14.7	14.0	13.7	13.5	12.5
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	4.9	7.2	8.9	10.8	12.6
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	387	323	379	356	355
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)	P _{N-60K}	kW	1.70	2.09	2.61	2.71	2.64
额定转速 Speed	n _N	r/min	1500	2000	3000	3500	4500
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	10.8	10.0	8.3	7.4	5.6
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	3.6	5.1	5.3	5.8	5.6
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	366	307	357	335	334
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	6500				
峰值扭矩 Peak torque	M _{max}	Nm	48.0				
峰值电流 Peak current	I _{max}	Arms	16.4	25.4	31.8	39.1	49.6
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)	n _{nee}	r/min	900	1600	2050	2550	3300
电机数据 Motor data							
极数 No. of poles	Poles		8				
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	2.99	1.93	1.55	1.26	0.99
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	208	134	107	87	69
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	4.77	1.93	1.23	0.791	0.497
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	49.9	20.8	13.3	8.78	5.46
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁴ kgm ²	6.75 (L) / 23.3 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁴ kgm ²	7.20 (L) / 23.7 (M)				
电机重量 (无制动器) Weight(No brake)	m	kg	12.4 (L) / 13.9 (M)				
电机重量 (带制动器) Weight(With brake)	m _b	kg	14.4 (L) / 15.9 (M)				
制动器数据 Brake data							
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	15.0				
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20 °)	I _{br}	A	0.81 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	19.5 ± 7%				
连接器类型 Connector Type							
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***-00733-E	VC***-01233-E			VC***-01633-E



图例
KEY

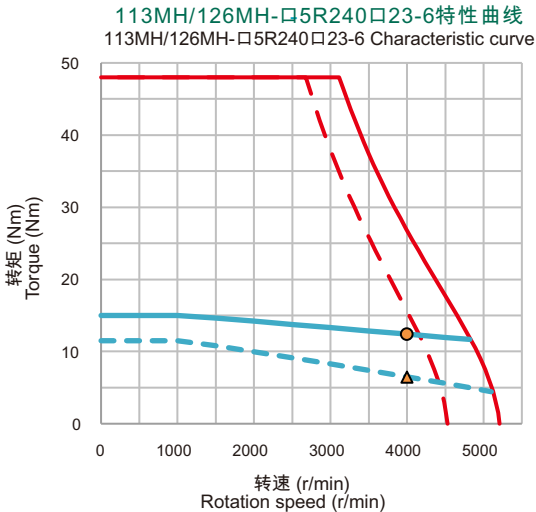
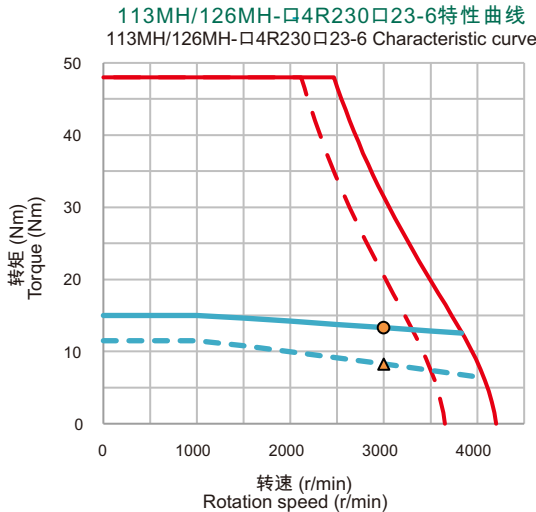
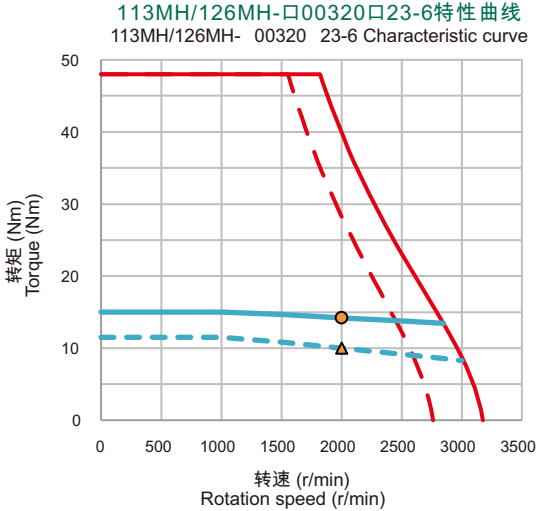
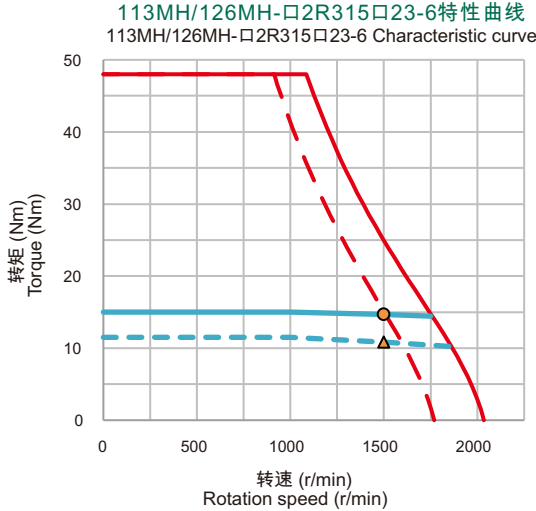
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

113MH-□-6/126MH-□-6技术数据-220VAC

113MH-□-6/126MH-□-6 Technical data -220VAC

电机型号 Motor type			113MH/ 126MH-□ 2R 315 □ 23-6	113MH/ 126MH-□ 00 320 □ 23-6	113MH/ 126MH-□ 4R 230 □ 23-6	113MH/ 126MH-□ 5R 240 □ 23-6
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	15.0		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	9.7	15.2	20.0 24.8
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	11.5		
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	7.4	11.5	15.2 18.8
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	2.31	2.97	4.18 5.19
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	14.7	14.2	13.3 12.4
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	9.5	14.3	17.8 20.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	199	166	183 193
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.70	2.09	2.61 2.72
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	10.8	10.0	8.3 6.5
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	6.9	10.0	11.0 10.6
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	189	157	173 182
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6500		
峰值转矩 Peak torque		M _{max}	Nm	48.0		
峰值电流 Peak current		I _{max}	Arms	31.8	49.6	65.6 81.4
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{k,nee}	r/min	1050	1800	2450 3100
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.55	0.99	0.75 0.60
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	107	69	52 42
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.23	0.50	0.298 0.191
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	13.3	5.5	3.12 2.03
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	6.75 (L) / 23.3 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	7.20 (L) / 23.7 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	12.4 (L) / 13.9 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	14.4 (L) / 15.9 (M)		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	15.0		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	0.81 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W			
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-01223-E	非标 non-standard	



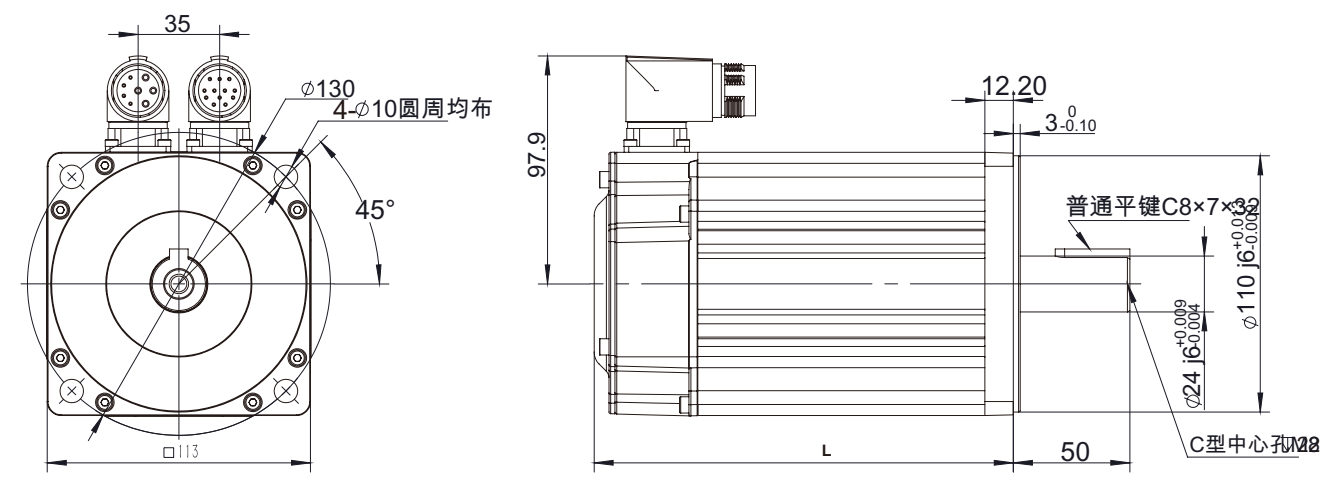
图例
KEY

--- M_{max} @ 200VAC
— M_{max} @ 230VAC
— S₁ @ 100K

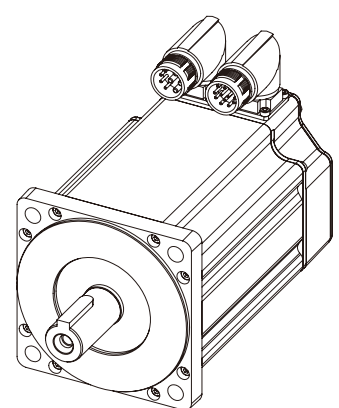
● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

113MH-口-口机械尺寸

113MH-口-口 Mechanical dimensions

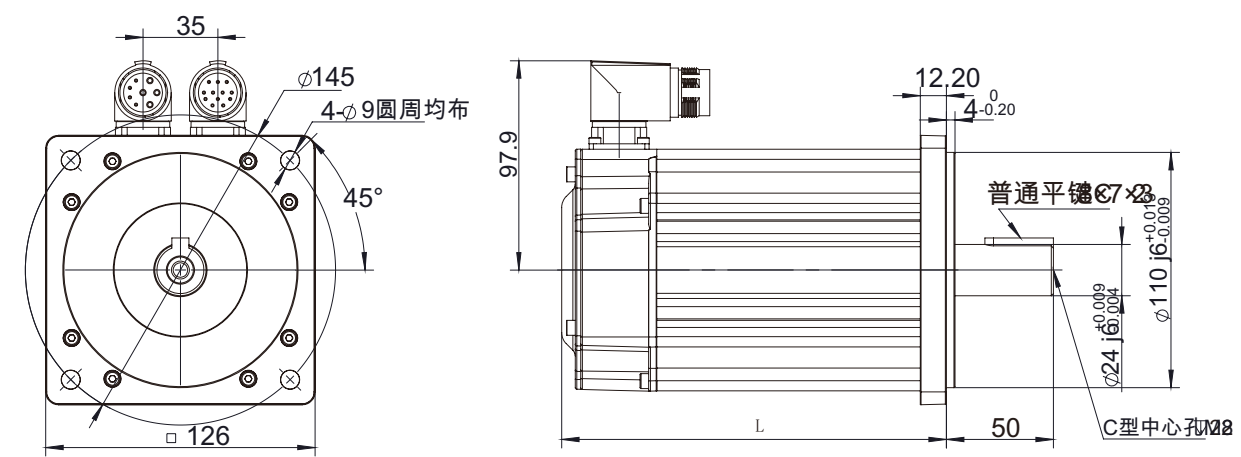


电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
113MH-L-C	145	198
113MH-L-2	155	208
113MH-L-3	180	233
113MH-L-4	205	258
113MH-L-6	255	308
113MH-M-C	155.1	208.1
113MH-M-2	165.1	218.1
113MH-M-3	194.3	247.3
113MH-M-4	223.1	276.4
113MH-M-6	279.9	332.9

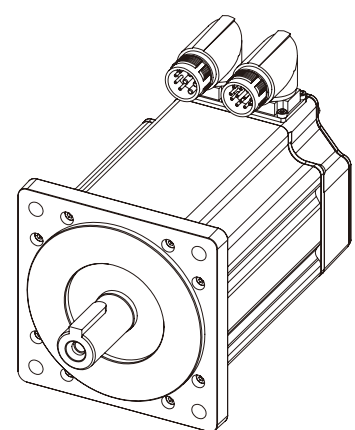


126MH-口-口机械尺寸

126MH-口-口 Mechanical dimensions



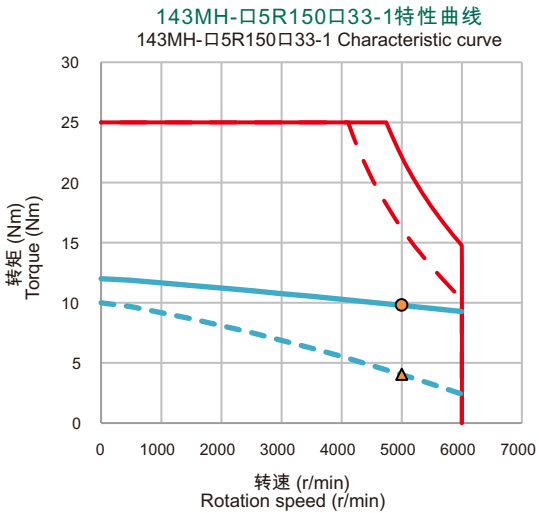
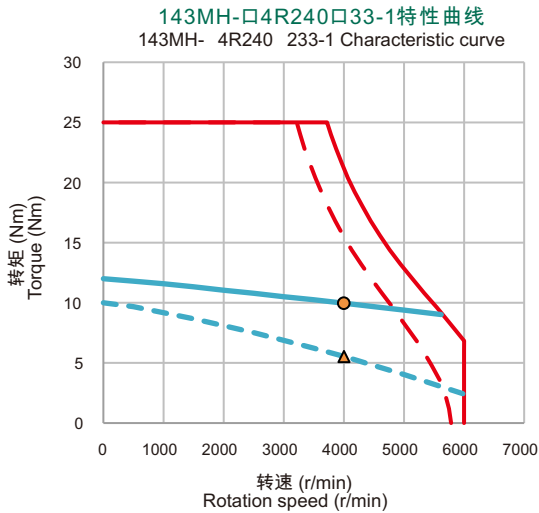
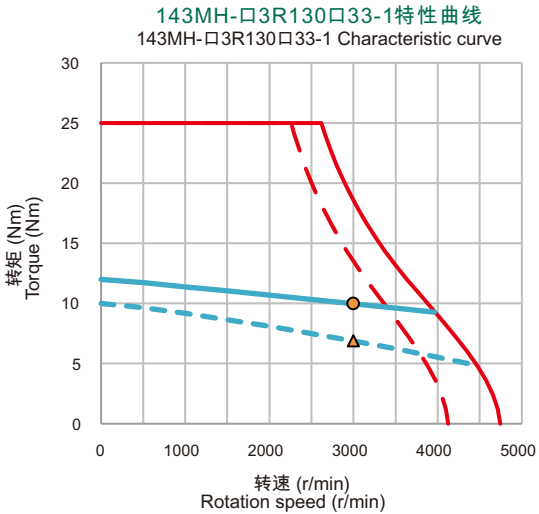
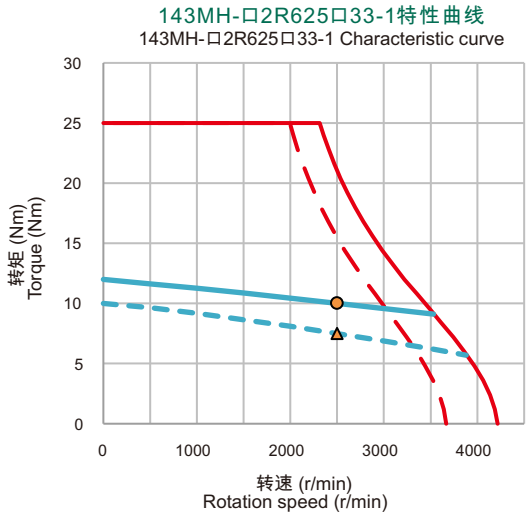
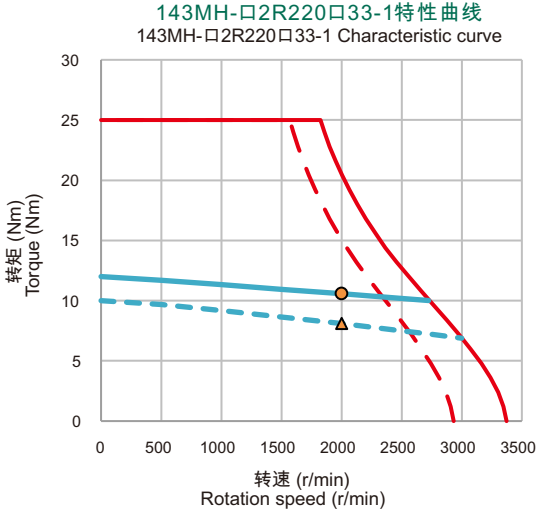
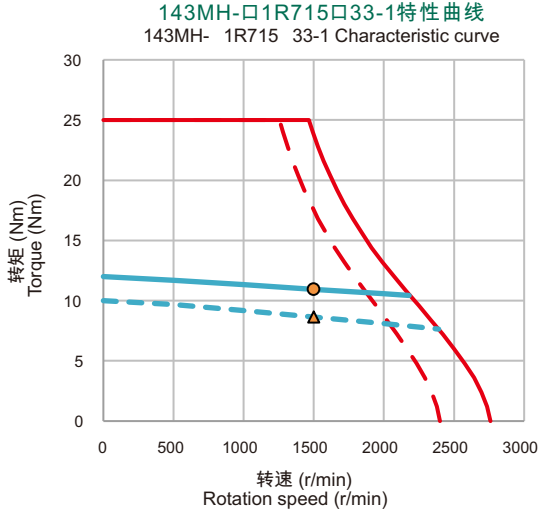
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
126MH-L-C	145	198
126MH-L-2	155	208
126MH-L-3	180	233
126MH-L-4	205	258
126MH-L-6	255	308
126MH-M-C	155.1	208.1
126MH-M-2	165.1	218.1
126MH-M-3	194.3	247.3
126MH-M-4	223.1	276.4
126MH-M-6	279.9	332.9



143MH-□-1技术数据-380VAC

143MH-□-1 Technical data -380VAC

电机型号 Motor type			143MH-□1 R715□33-1	143MH-□2 R220□33-1	143MH-□2 R625□33-1	143MH-□3 R130□33-1	143MH-□4 R240□33-1	143MH-□5 R150□33-1	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	12.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	5.3	6.5	8.1	9.1	12.8	16.2
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	10.0					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	4.2	5.2	6.5	7.3	10.2	13.0
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	1.7	2.2	2.6	3.1	4.2	5.1
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	11.0	10.6	10.0	10.0	10.0	9.8
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	4.8	5.7	6.7	7.6	10.6	13.2
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	328	347	338	358	338	330
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.4	1.7	2.0	2.2	2.3	2.1
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	5000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	8.7	8.1	7.5	6.9	5.5	4.0
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	3.7	4.2	4.9	5.0	5.6	5.2
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	301	318	311	325	297	284
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值扭矩 Peak torque		M _{max}	Nm	25.0					
峰值电流 Peak current		I _{max}	Arms	12	15	18	21	29	36
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{knee}	r/min	1250	1550	2000	2250	3200	4100
电机数据 Motor data									
极数 No. of poles		Poles	8						
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.27	1.86	1.48	1.32	0.94	0.74
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	158	130	104	92	66	52
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	3.65	2.37	1.50	1.19	0.60	0.37
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	64.8	43.4	27.8	21.9	11.2	6.94
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	6.69 (L) / 25.1 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	8.34 (L) / 26.7 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	10.5 (L) / 11.4 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	13.0 (L) / 13.9 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)					
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-00733-E		VC***-01233-E		VC***-01633-E	



图例
KEY

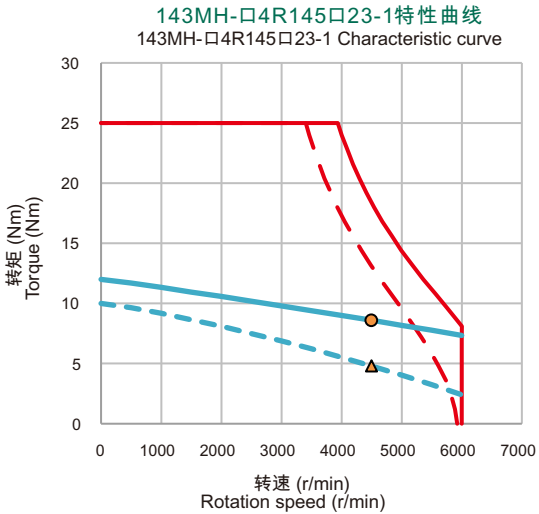
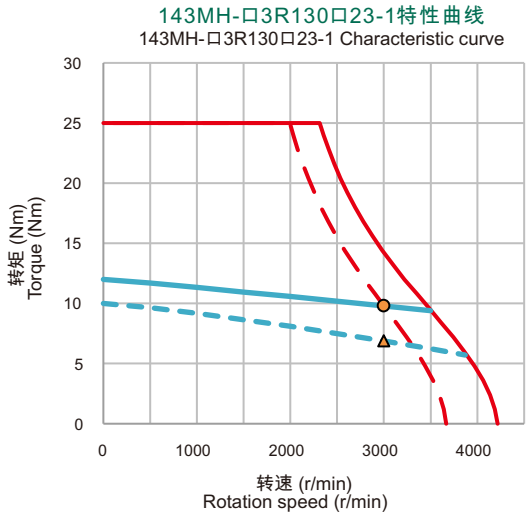
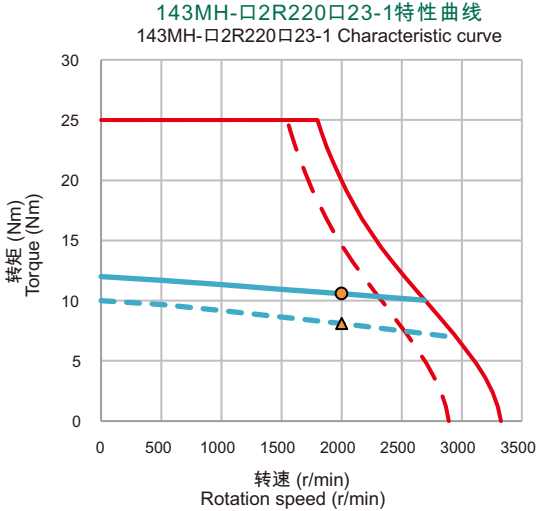
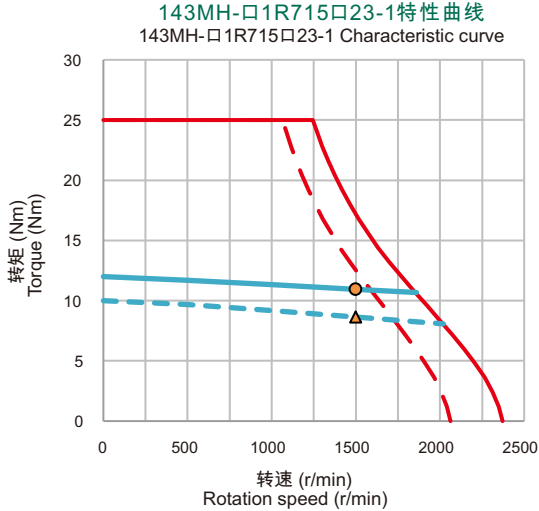
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

143MH-□-1技术数据-220VAC

143MH-□-1 Technical data -220VAC

电机型号 Motor type		143MH-□1R 715□23-1	143MH-□2R 220□23-1	143MH-□3R 130□23-1	143MH-□4R 145□23-1	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage	U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)	M _{0-100K}	Nm	12.0			
堵转电流 (100K) Locked rotor current (100K)	I _{0-100K}	Arms	9.1	12.8	16.2	26.1
堵转转矩 (60K) locked torque (60K)	M _{0-60K}	Nm	10.0			
堵转电流 (60K) Locked rotor current (60K)	I _{0-60K}	Arms	7.3	10.2	13.0	21.0
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)	P _{N-100K}	kW	1.7	2.2	3.1	4.1
额定转速 Speed	n _N	r/min	1500	2000	3000	4500
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	11.0	10.6	9.8	8.6
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	8.3	11.3	13.2	18.7
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	190	176	200	176
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)	P _{N-60K}	kW	1.4	1.7	2.2	2.3
额定转速 Speed	n _N	r/min	1500	2000	3000	4500
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm	8.7	8.1	6.9	4.8
额定电流 (60K) Current (60K)	I _{N-60K}	Arms	6.4	8.3	9.0	10.1
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC	175	161	183	160
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{mechmax}	r/min	6000			
峰值扭矩 Peak torque	M _{max}	Nm	25.0			
峰值电流 Peak current	I _{max}	Arms	21	29	36	59
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)	n _{nee}	r/min	1250	1800	2300	3900
电机数据 Motor data						
极数 No. of poles	Poles		8			
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	1.32	0.94	0.74	0.46
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	92	66	52	32
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	1.19	0.60	0.37	0.17
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	21.9	11.2	6.94	2.50
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁻⁴ kgm ²	6.69 (L) / 25.1 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁻⁴ kgm ²	8.34 (L) / 26.7 (M)			
电机重量 (无制动器) Weight(No brake)	m	kg	10.5 (L) / 11.4 (M)			
电机重量 (带制动器) Weight(With brake)	m _b	kg	13.0 (L) / 13.9 (M)			
制动器数据 Brake data						
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	40.0			
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)	I _{br}	A	1.17 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	28.0 ± 7%			
连接器类型 Connector Type						
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver			VC***-01223-E	VC***-01523-E	非标 non-standard	



图例
KEY

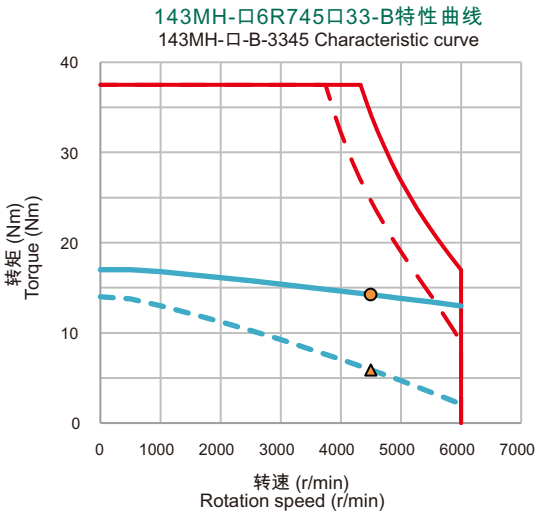
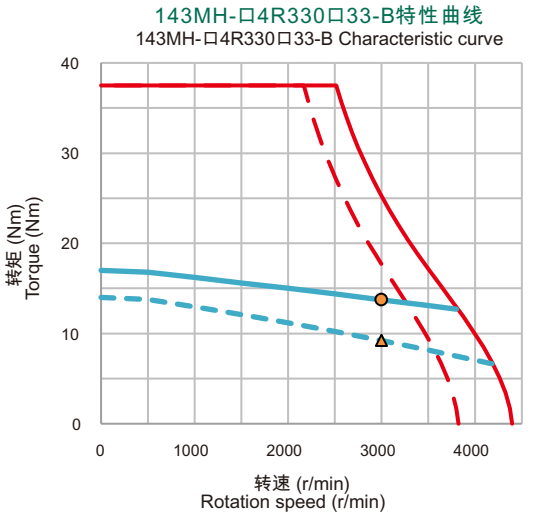
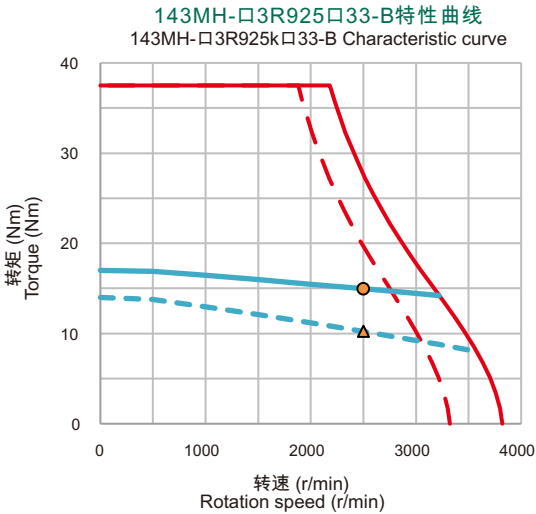
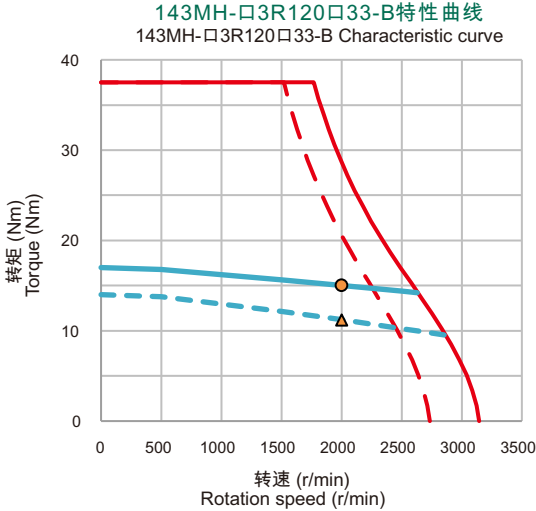
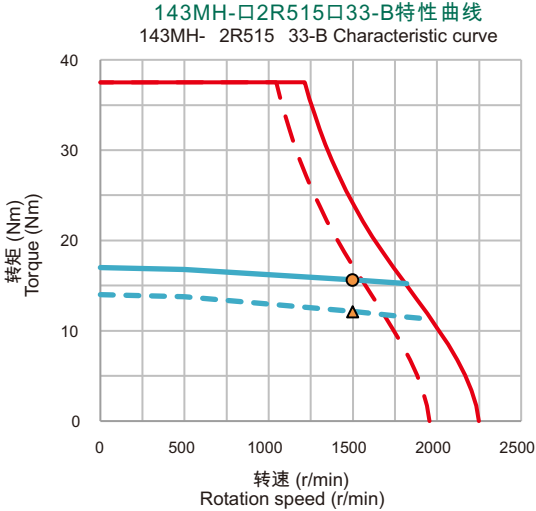
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

143MH-□-B技术数据-380VAC

143MH-□-B Technical data -380VAC

电机型号 Motor type			143MH-□2R 515□33-B	143MH-□3R 120□33-B	143MH-□3R R925□33-B	143MH-□4R 330□33-B	143MH-□6R 745□33-B	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value				
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	17.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	6.1	8.5	10.4	11.9	20.2
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	14.0				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	4.8	6.8	8.2	9.5	16.0
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	2.5	3.1	3.9	4.3	6.7
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	15.6	15.0	15.0	13.7	14.25
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	5.6	7.5	9.2	9.6	16.9
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	387	358	365	370	329
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.9	2.3	2.7	2.9	2.8
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	12.1	11.2	10.2	9.2	5.9
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	4.2	5.4	6.0	6.2	6.7
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	357	331	333	341	289
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	6000				
峰值转矩 Peak torque		M _{max}	Nm	37.5				
峰值电流 Peak current		I _{max}	Arms	15	20	25	29	48
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1050	1500	1850	2150	3750
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.78	1.99	1.64	1.42	0.84
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	194	139	114	99	59
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	2.42	1.65	1.07	0.90	0.34
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	65.1	31.3	21.2	16.0	5.60
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	9.63 (L) / 42.5 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	11.3 (L) / 44.2 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	13.0 (L) / 14.6 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	15.5 (L) / 17.1 (M)				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-00733-E	VC***-01233-E		VC***-02733-E	



图例
KEY

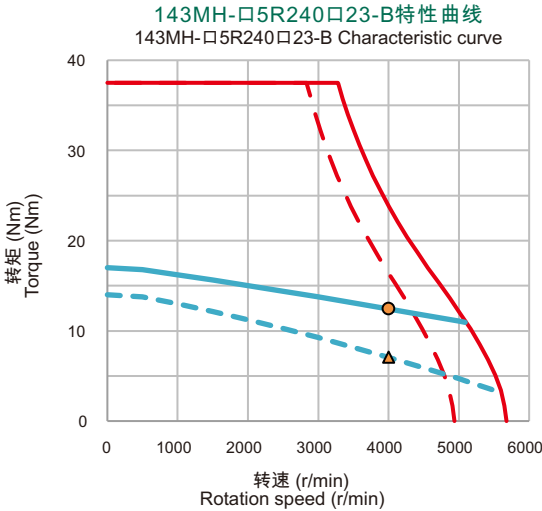
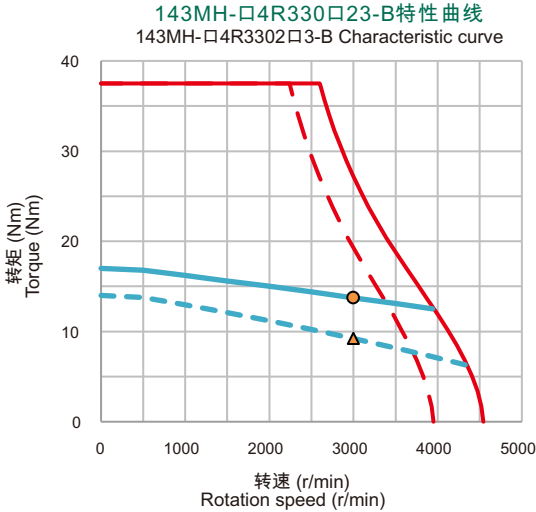
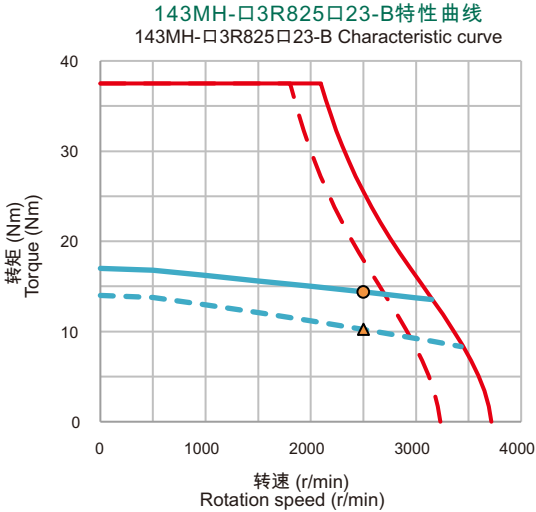
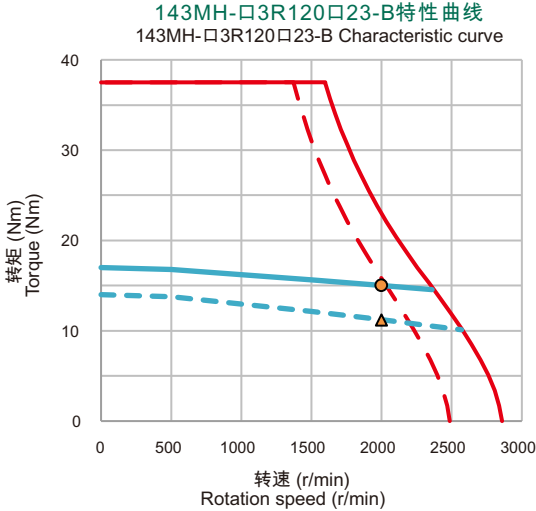
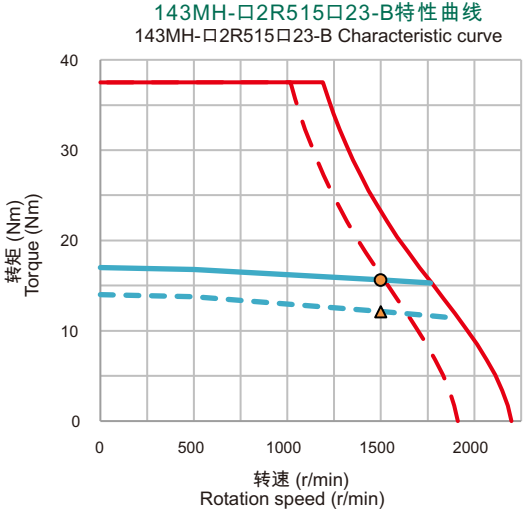
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

143MH-□-B技术数据-220VAC

143MH-□-B Technical data -220VAC

电机型号 Motor type			143MH-□2 R515□23-B	143MH-□3 R120□23-B	143MH-□3 R825□23-B	143MH-□4 R330□23-B	143MH-□5 R240□23-B	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value				
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	200 ... 250				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	17.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	11.9	15.5	20.2	24.7	30.8
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	14.0				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	9.5	12.3	16.0	19.6	24.5
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	2.5	3.1	3.8	4.3	5.2
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	15.6	15.0	14.4	13.7	12.4
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	11.0	13.7	17.1	19.9	22.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	198	197	186	179	186
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	1.9	2.3	2.7	2.9	3.0
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	12.1	11.2	10.2	9.2	7.1
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	8.2	9.9	11.7	12.9	12.4
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	183	182	172	165	171
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000				
峰值转矩 Peak torque		M _{max}	Nm	37.5				
峰值电流 Peak current		I _{max}	Arms	29	37	48	59	74
峰值转矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1150	1600	2100	2600	3250
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.42	1.09	0.84	0.69	0.55
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	99	76	59	48	38
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.90	0.50	0.34	0.22	0.14
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	16.0	9.47	5.60	3.75	2.40
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	9.63 (L) / 42.5 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	11.3 (L) / 44.2 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	13.0 (L) / 14.6 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	15.5 (L) / 17.1 (M)				
制动器数据 Brake data								
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver			VC***-01223-E	非标 non-standard				



图例
KEY

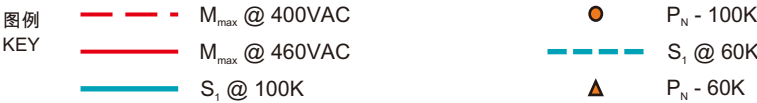
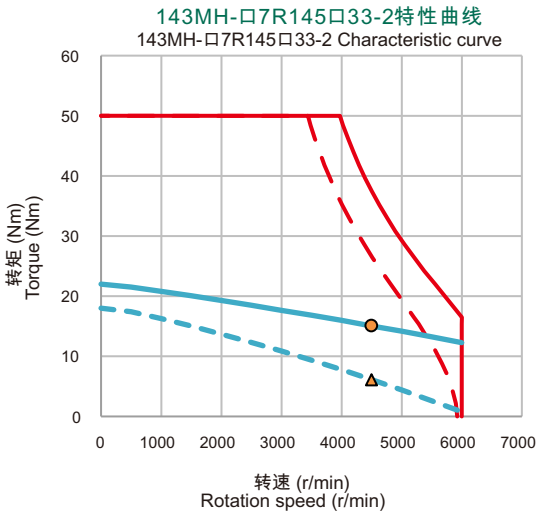
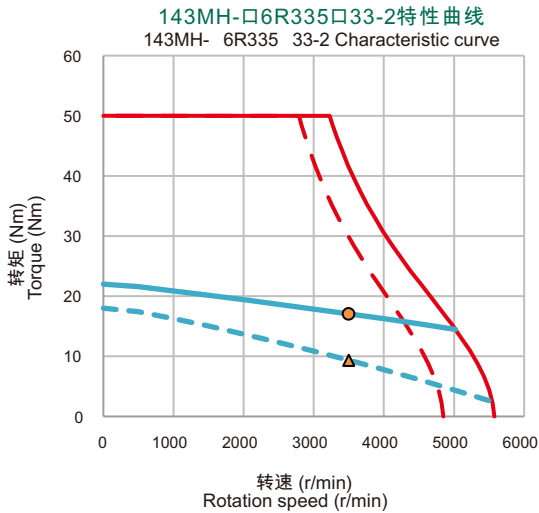
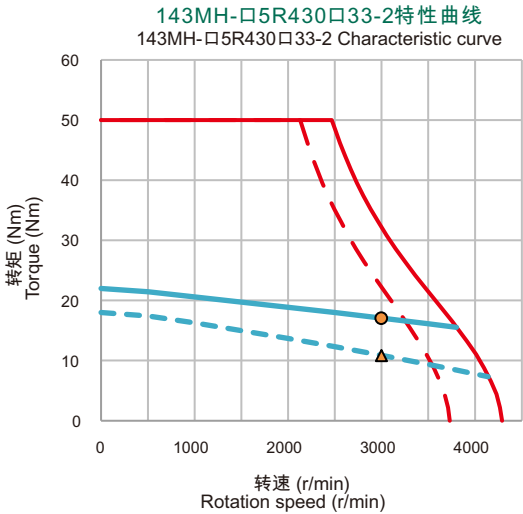
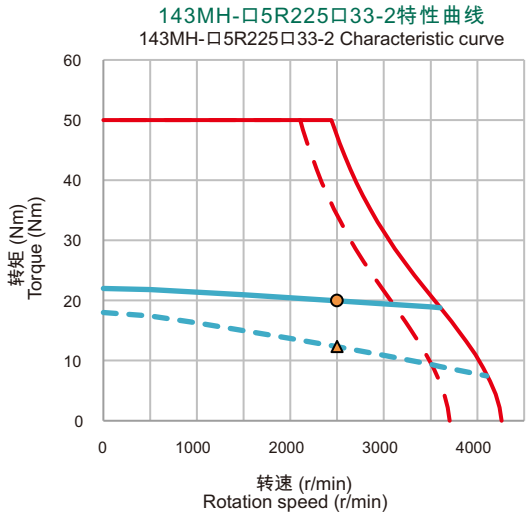
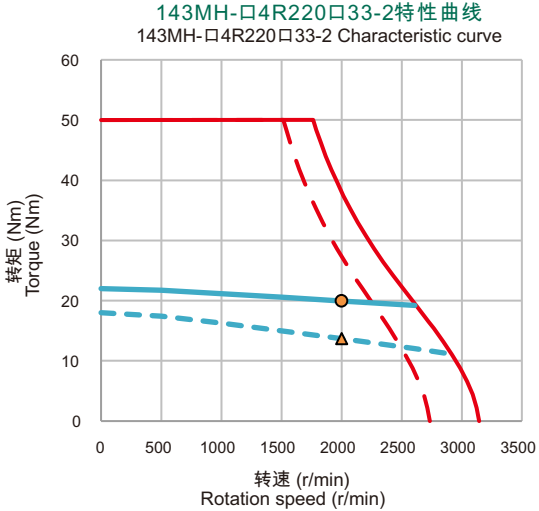
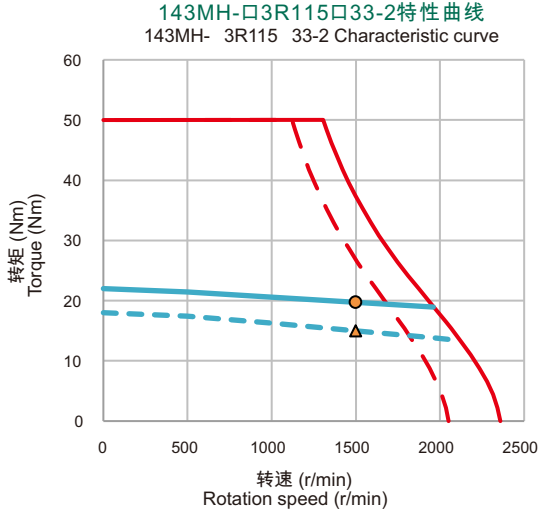
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

143MH-口-2技术数据-380VAC

143MH-口-2 Technical data -380VAC

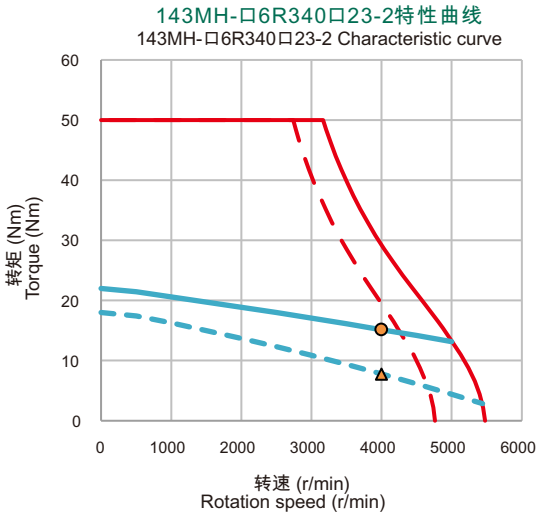
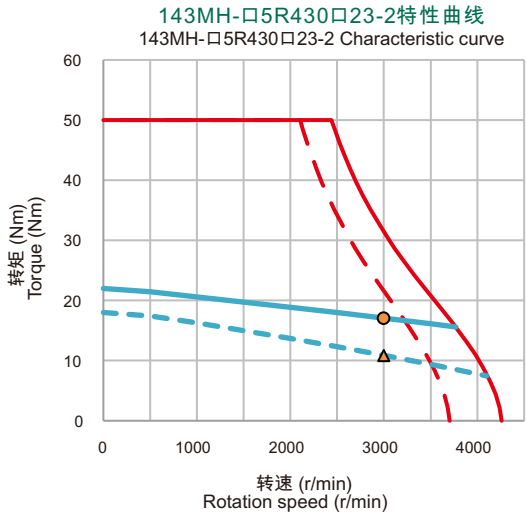
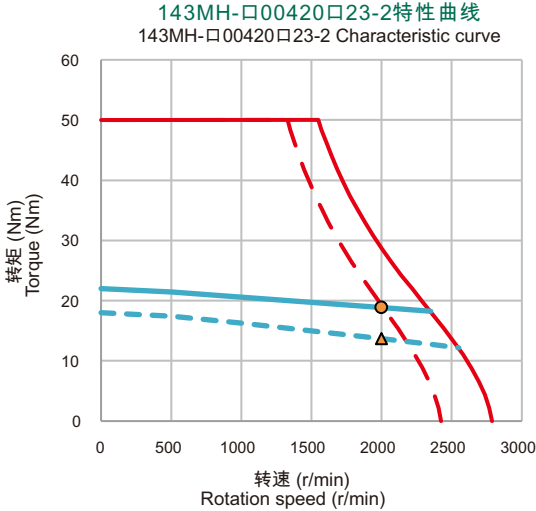
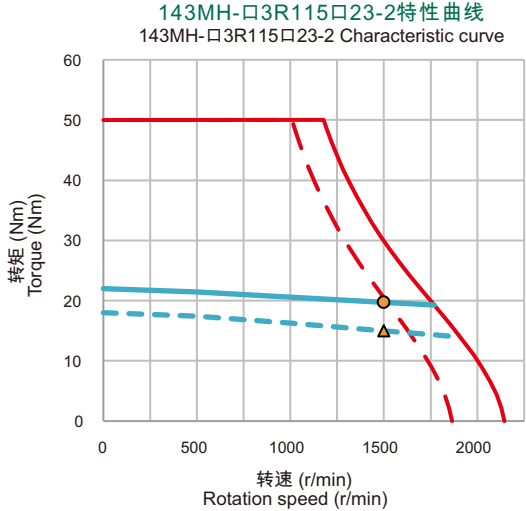
电机型号 Motor type			143MH-□3 R115□33-2	143MH-□4 R220□33-2	143MH-□5 R225□33-2	143MH-□5 R430□33-2	143MH-□6 R335□33-2	143MH-□7 R145□33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value				
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	22.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	8.3	11.1	15.0	15.1	19.6	23.9
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	18.0					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	6.5	8.7	11.8	11.9	15.4	18.9
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.1	4.2	5.2	5.4	6.3	7.1
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	3500	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	19.7	20.0	20.0	17.1	17.1	15.1
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	7.4	10.0	13.6	11.7	15.2	16.4
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	360	359	328	372	334	340
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.4	2.9	3.2	3.4	3.4	2.9
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	3500	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	15.0	13.7	12.3	10.9	9.4	6.1
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	5.4	6.6	8.1	7.2	8.1	6.4
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	334	327	294	344	304	311
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	50.0					
峰值电流 Peak current		I _{max}	Arms	20	27	37	37	48	59
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1100	1500	2100	2100	2750	3400
电机数据 Motor data									
极数 No. of poles		Poles		8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.65	1.99	1.47	1.46	1.12	0.92
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	185	139	103	102	78	64
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	2.01	1.29	0.68	0.61	0.41	0.27
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	41.7	23.5	12.8	12.6	7.47	5.00
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	12.6 (L) / 45.5 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	14.2 (L) / 47.1 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	15.6 (L) / 17.2 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	18.1 (L) / 19.7 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)					
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-01233-E		VC***-01633-E		VC***-02033-E	VC***-02733-E



143MH-□-2技术数据-220VAC

143MH-□-2 Technical data -220VAC

电机型号 Motor type			143MH-□3R 115□23-2	143MH-□004 20□23-2	143MH-□5R 430□23-2	143MH-□6R 340□23-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value			
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	200 ... 250			
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	22.0			
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	15.1	19.6	29.9	38.5
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	18.0			
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	11.9	15.4	23.6	30.3
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.1	4.0	5.4	6.3
额定转速 Speed		n _N	r/min	1500	2000	3000	4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	19.7	18.9	17.1	15.1
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	13.5	16.8	23.3	26.4
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	198	199	188	189
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.4	2.9	3.4	3.3
额定转速 Speed		n _N	r/min	1500	2000	3000	4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	15.0	13.7	10.9	7.8
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	9.9	11.8	14.3	13.1
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	184	184	173	174
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000			
峰值扭矩 Peak torque		M _{max}	Nm	50.0			
峰值电流 Peak current		I _{max}	Arms	37	48	74	95
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1150	1550	2400	3150
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.46	1.12	0.73	0.57
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	102	78	51	40
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.61	0.41	0.17	0.10
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	12.6	7.47	3.20	1.94
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	12.6 (L) / 45.5 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	14.2 (L) / 47.1 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	15.6 (L) / 17.2 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	18.1 (L) / 19.7 (M)			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				非标 non-standard			



图例
KEY

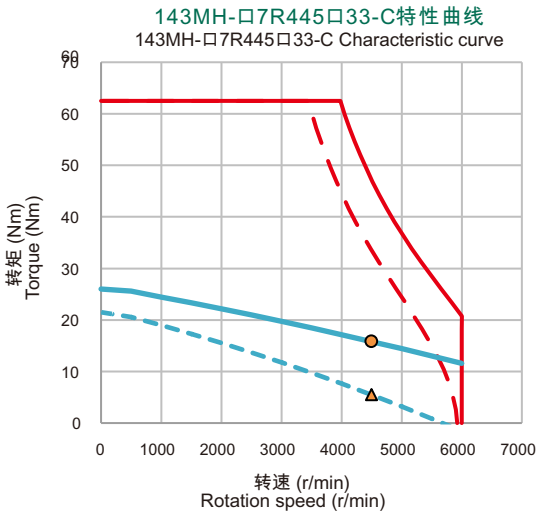
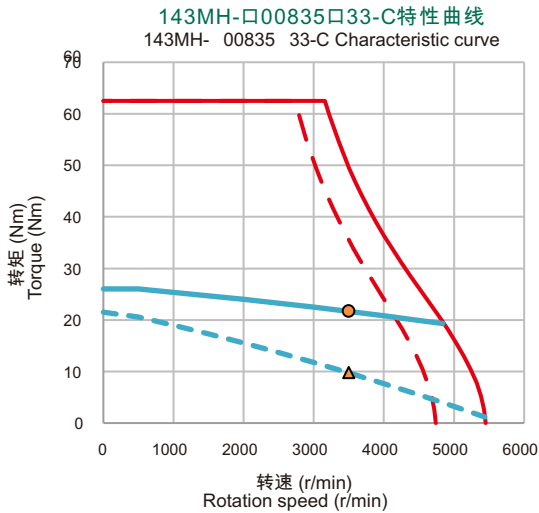
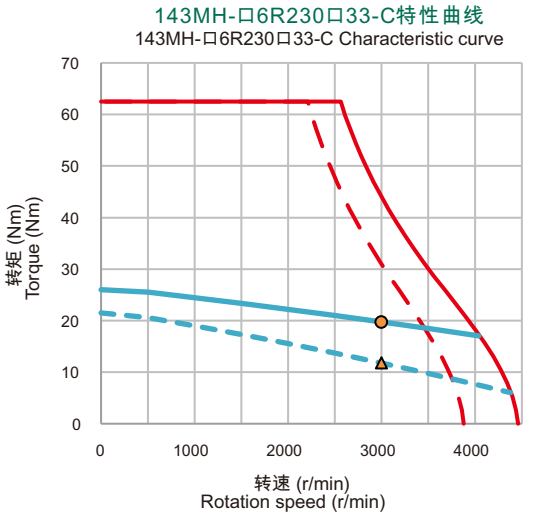
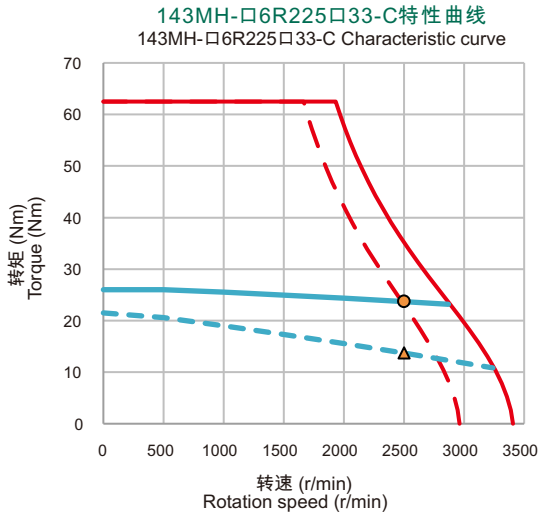
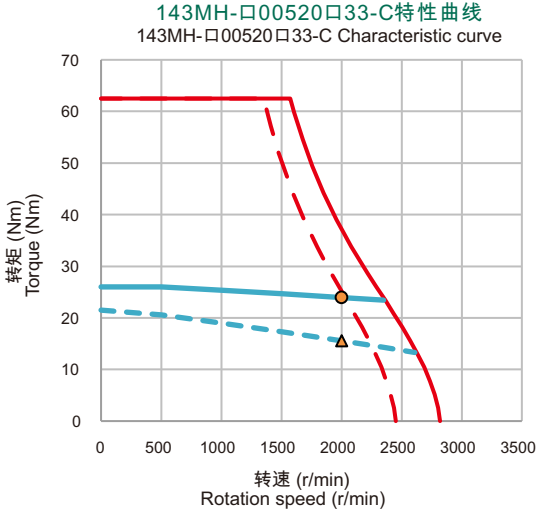
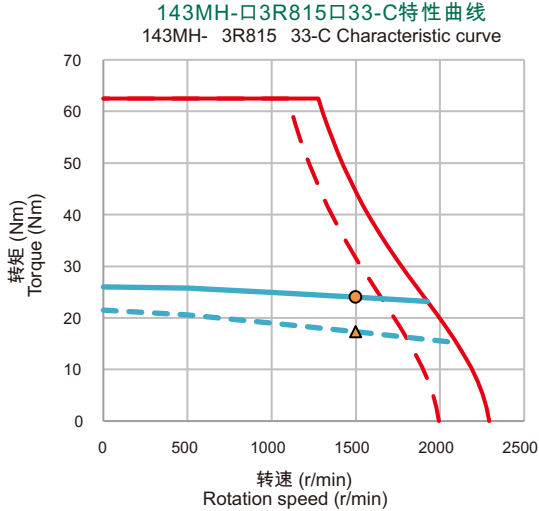
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

143MH-□-C技术数据-380VAC

143MH-□-C Technical data -380VAC

电机型号 Motor type			143MH-□3 R815□33-C	143MH-□0 0520□33-C	143MH-□6 R225□33-C	143MH-□6 R230□33-C	143MH-□0 0835□33-C	143MH-□7 R445□33-C	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	26.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	9.5	11.7	14.2	18.5	22.6	28.3
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	21.5					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	7.6	9.3	11.3	14.8	18.0	22.5
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.8	5.0	6.2	6.2	8.0	7.4
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	3500	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	24.0	24.0	23.7	19.7	21.7	15.8
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	8.8	10.8	12.9	14.0	18.9	17.2
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	365	394	403	352	342	330
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.7	3.3	3.6	3.7	3.6	2.6
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	3500	4500
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	17.3	15.6	13.7	11.8	9.8	5.5
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	6.1	6.8	7.2	8.1	8.2	5.8
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	337	358	362	326	307	308
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	62.5					
峰值电流 Peak current		I _{max}	Arms	25	30	37	48	59	74
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1100	1350	1650	2200	2700	3450
电机数据 Motor data									
极数 No. of poles		Poles		8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.73	2.22	1.84	1.40	1.15	0.92
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	191	155	128	98	80	64
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.54	1.22	0.80	0.48	0.31	0.20
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	35.3	23.4	16.00	9.34	6.25	4.00
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	15.6 (L) / 60.6 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	17.2 (L) / 62.3 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	18.6 (L) / 20.8 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	21.1 (L) / 23.3 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-01233-E	VC***-01633-E	VC***-02033-E	VC***-02733-E	VC***-03233-E	



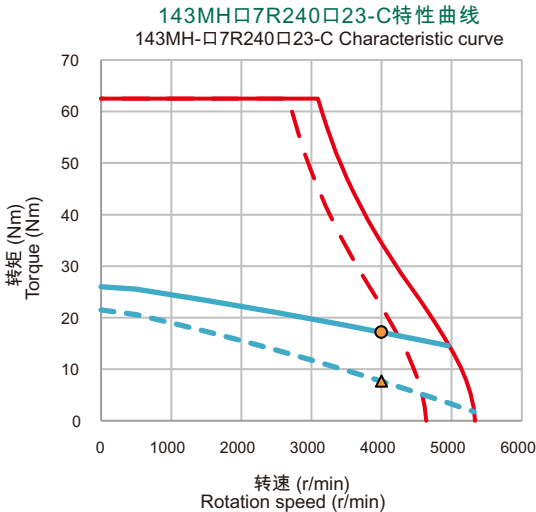
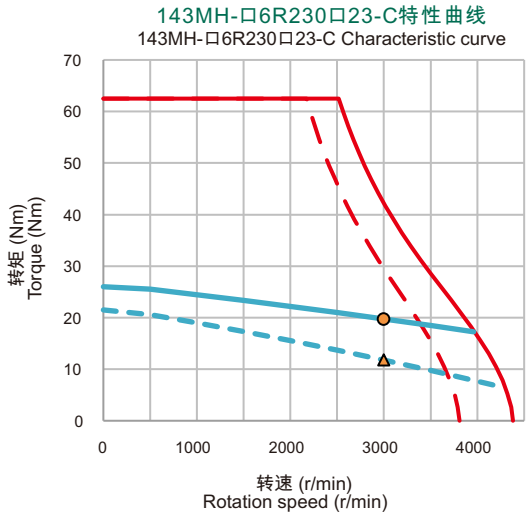
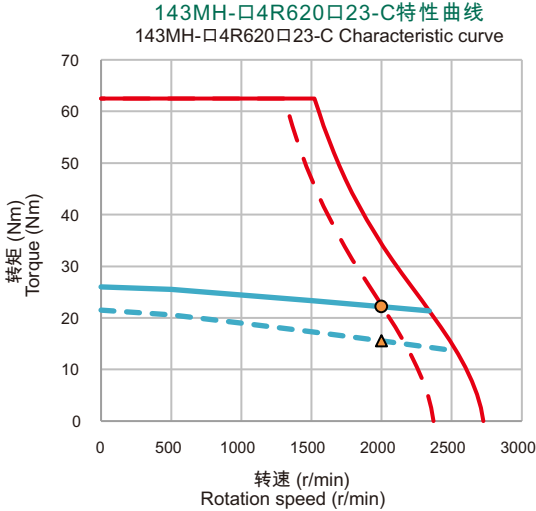
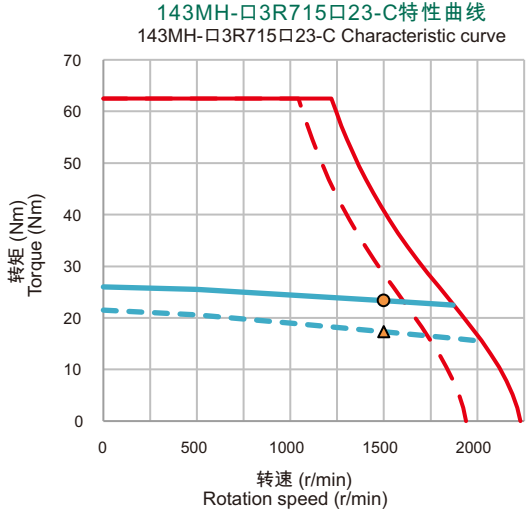
图例
KEY
- - - M_{max} @ 400VAC
- - - M_{max} @ 460VAC
- - - S₁ @ 100K

● P_N - 100K
- - - S₁ @ 60K
▲ P_N - 60K

143MH-□-C技术数据-220VAC

143MH-□-C Technical data -220VAC

电机型号 Motor type			143MH-□3R 715□23-C	143MH-□4R 620□23-C	143MH-□6R 230□23-C	143MH-□7R 240□23-C
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	26.0		
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	18.5	22.6	36.4 44.3
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	21.5		
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	14.8	18.0	29.0 35.3
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.7	4.6	6.2 7.2
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	23.3	22.2	19.7 17.2
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	16.6	19.3	27.6 29.3
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	188	200	176 190
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.7	3.3	3.7 3.2
额定转速 Speed		n _N	r/min	1500	2000	3000 4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	17.3	15.6	11.8 7.7
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	11.9	13.1	15.9 12.6
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	174	185	166 177
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000		
峰值扭矩 Peak torque		M _{max}	Nm	62.5		
峰值电流 Peak current		I _{max}	Arms	48	59	95 115
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1200	1500	2500 3050
电机数据 Motor data						
极数 No. of poles		Poles		8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.40	1.15	0.71 0.59
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	98	80	50 41
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.48	0.31	0.12 0.080
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	9.34	6.25	2.42 1.63
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	15.6 (L) / 60.6 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	17.2 (L) / 62.3 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	18.6 (L) / 20.8 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	21.1 (L) / 23.3 (M)		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				非标 non-standard		



图例
KEY

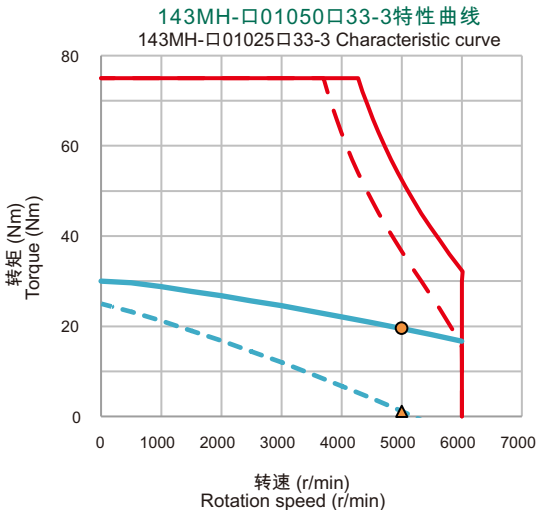
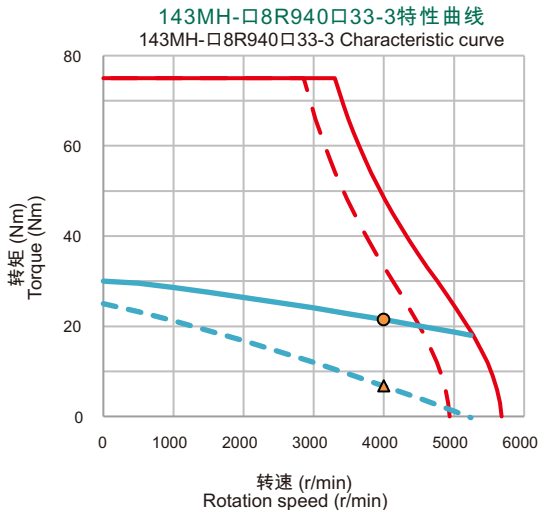
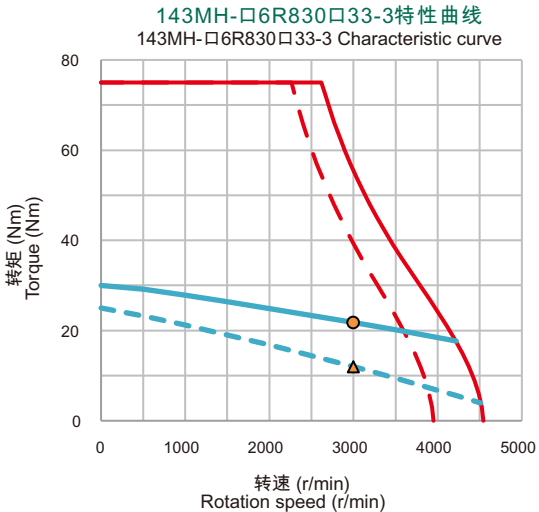
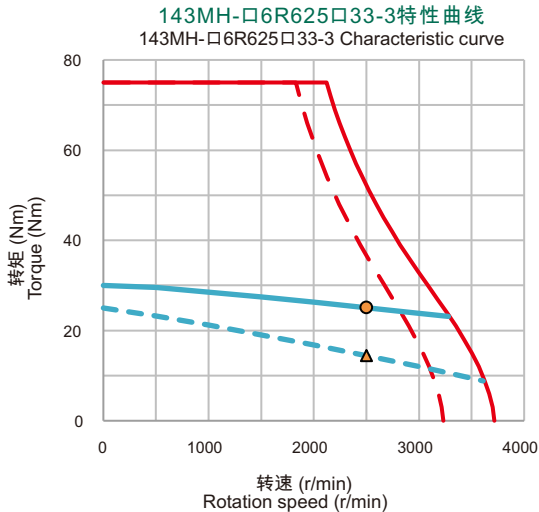
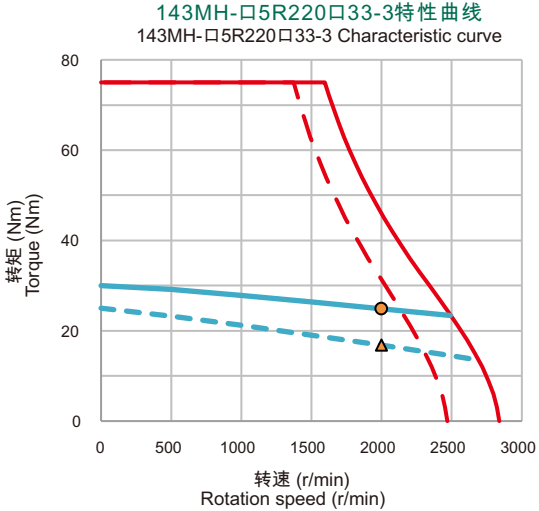
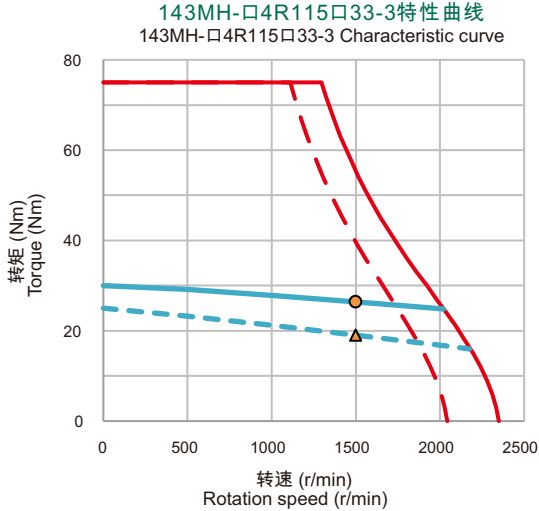
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

143MH-□-3技术数据-380VAC

143MH-□-3 Technical data -380VAC

电机型号 Motor type			143MH-4R 115口33-3	143MH-5R 220口33-3	143MH-6R 625口33-3	143MH-6R 830口33-3	143MH-口8 R940口33-3	143MH-0 1050口33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	30.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	11.3	13.6	17.8	21.8	27.2	35.0
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	25.0					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	9.0	10.9	14.3	17.5	21.8	28.1
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	4.1	5.2	6.6	6.8	8.9	10.2
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	26.4	24.9	25.1	21.8	21.2	19.5
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	9.9	11.3	14.9	15.8	19.2	22.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	351	376	358	340	359	343
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	3.0	3.5	3.8	3.8	2.8	0.6
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	5000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	19.0	16.8	14.4	12.0	6.8	1.1
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	6.9	7.3	8.2	8.4	5.9	1.2
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	326	350	328	316	329	315
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	75.0					
峰值电流 Peak current		I _{max}	Arms	30	37	48	59	74	95
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1100	1350	1800	2250	2850	3700
电机数据 Motor data									
极数 No. of poles		Poles		8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.66	2.20	1.68	1.38	1.10	0.86
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	186	154	118	96	77	60
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.40	0.92	0.56	0.36	0.23	0.14
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	28.0	19.2	11.2	7.50	4.80	2.90
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	18.6 (L) / 63.6 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	20.2 (L) / 65.2 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	21.1 (L) / 23.3 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	23.6 (L) / 25.8 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-01233-E	VC***-01633-E	VC***-02033-E	VC***-02733-E	VC***-03233-E	VC***-03833-E



图例
KEY

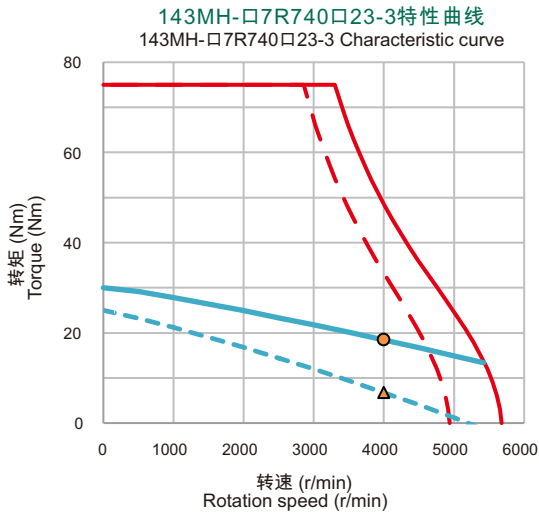
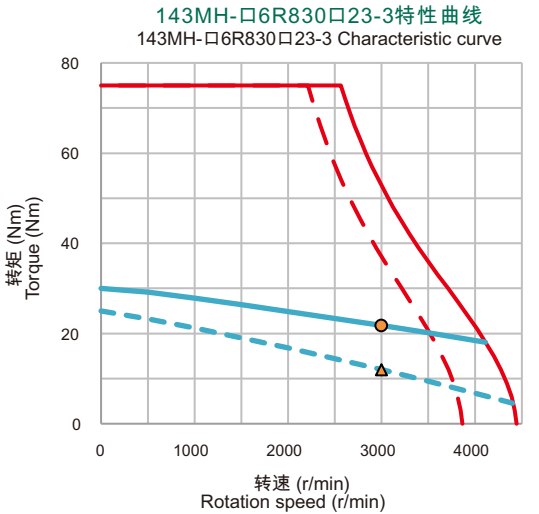
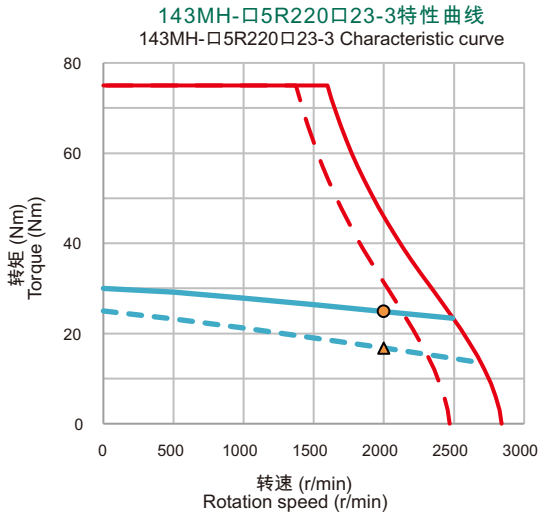
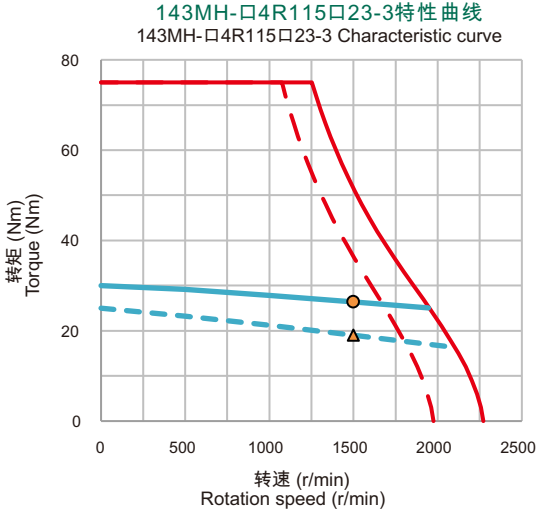
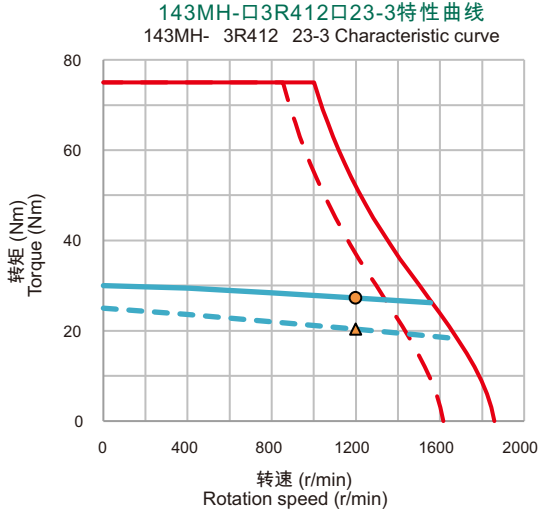
- M_{max} @ 400VAC
- M_{max} @ 460VAC
- S₁ @ 100K

- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

143MH-□-3技术数据-220VAC

143MH-□-3 Technical data -220VAC

电机型号 Motor type			143MH-□3R 412□23-3	143MH-□4R 115□23-3	143MH-□5R 220□23-3	143MH-□6R 830□23-3	143MH-□7R 740□23-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	200 ... 250				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	30.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	17.8	21.8	27.2	42.6	54.4
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	25.0				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	14.8	17.5	21.8	34.2	43.7
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.4	4.1	5.2	6.8	7.7
额定转速 Speed		n _N	r/min	1200	1500	2000	3000	4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	27.3	26.4	24.9	21.8	18.4
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	16.2	19.2	22.6	31.0	33.4
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	181	181	188	174	176
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.6	3.0	3.5	3.8	2.8
额定转速 Speed		n _N	r/min	1200	1500	2000	3000	4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	20.3	19.0	16.8	12.0	6.8
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	12.1	13.3	14.7	16.4	11.9
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	168	168	175	162	164
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	6000				
峰值扭矩 Peak torque		M _{max}	Nm	75.0				
峰值电流 Peak current		I _{max}	Arms	48	59	74	115	147
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	1000	1250	1600	2550	3300
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.68	1.38	1.10	0.70	0.55
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	118	96	77	49	38
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.56	0.36	0.23	0.092	0.057
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	11.2	7.50	4.80	1.96	1.20
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	18.6 (L) / 63.6 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	20.2 (L) / 65.2 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	21.1 (L) / 23.3 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	23.6 (L) / 25.8 (M)				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				非标 non-standard				



图例
KEY

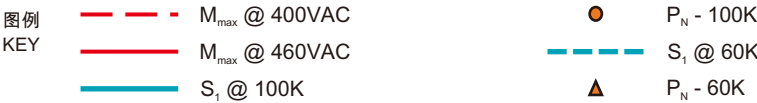
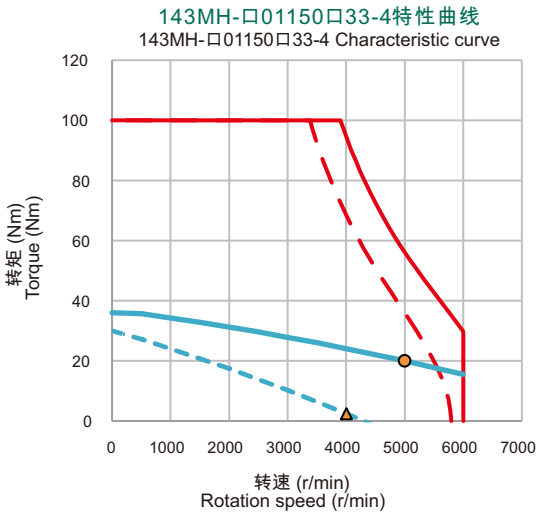
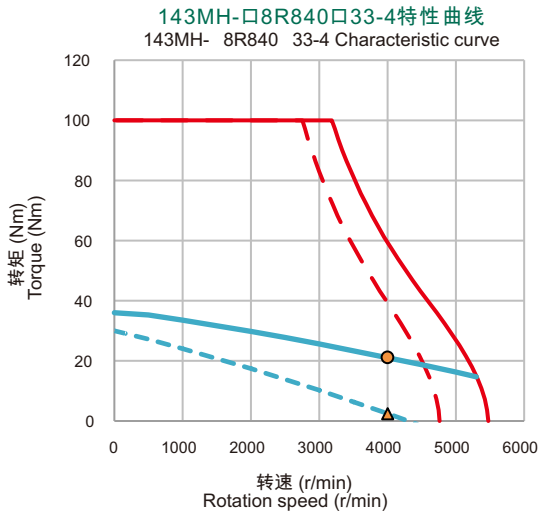
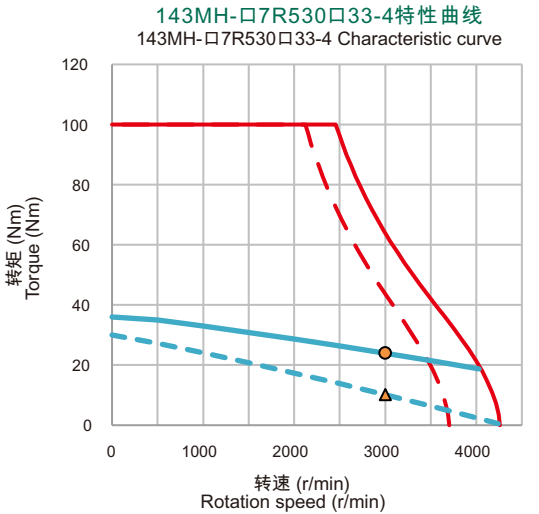
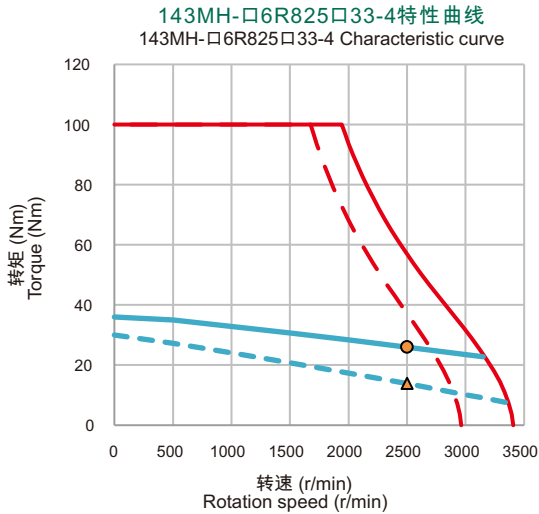
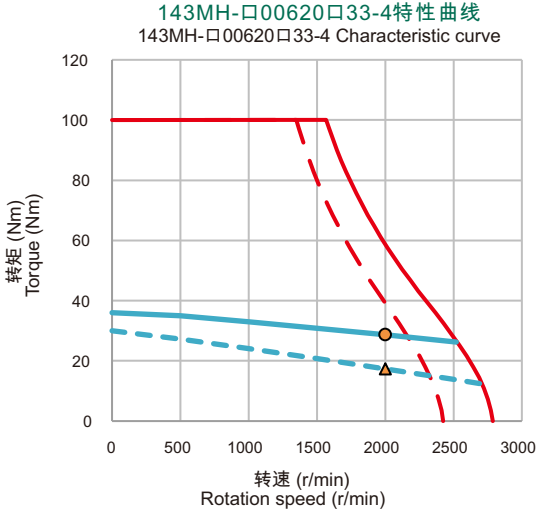
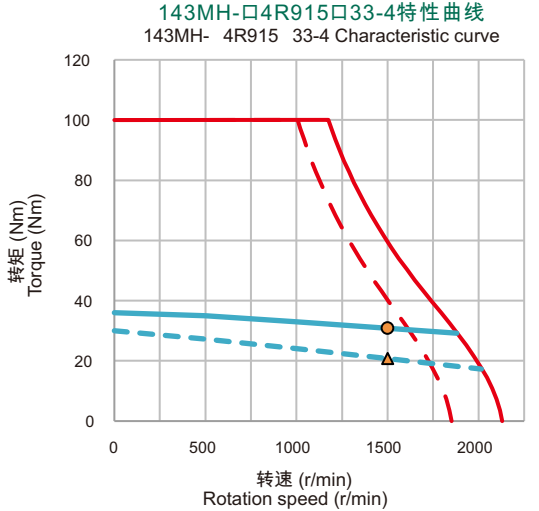
- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

● P_N - 100K
--- S₁ @ 60K
▲ P_N - 60K

143MH-口-4技术数据-380VAC

143MH-口-4 Technical data -380VAC

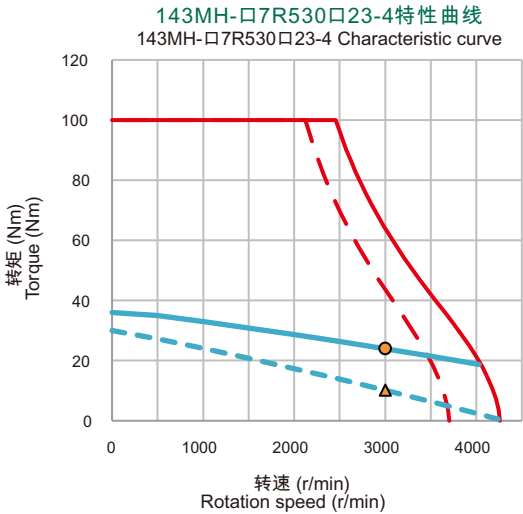
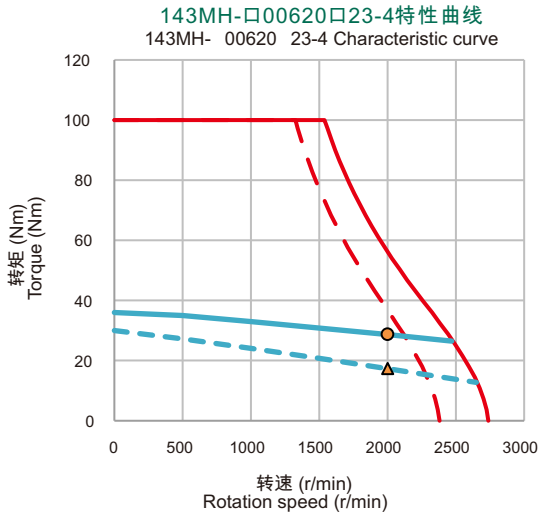
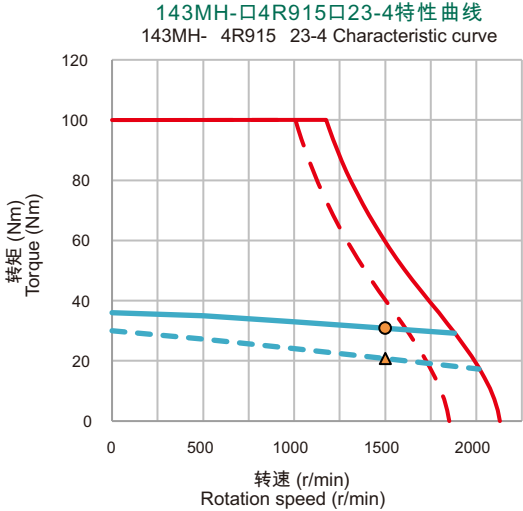
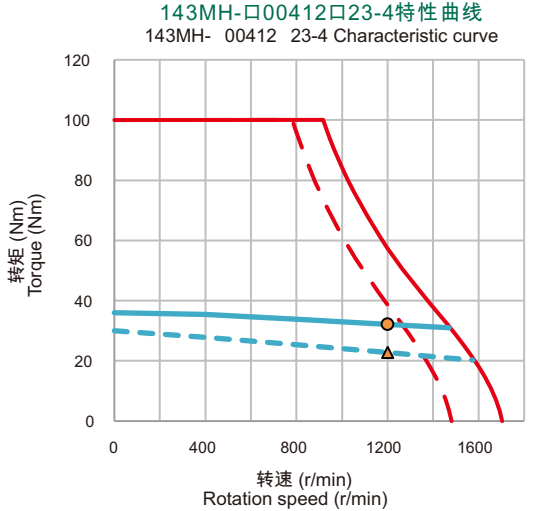
电机型号 Motor type			143MH-口4 R915口33-4	143MH-口0 0620口33-4	143MH-口6 R825口33-4	143MH-口7 R530口33-4	143MH-口8R 840口33-4	143MH-口0 1150口33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	36.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	12.2	16.0	19.6	24.5	31.5	38.3
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	30.0					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	9.8	12.9	15.7	19.7	25.3	30.8
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	4.9	6.0	6.8	7.5	8.8	10.5
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	30.9	28.7	26.0	24.0	21.1	20.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	10.5	12.8	14.2	16.3	18.5	21.3
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	374	372	372	352	358	364
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	3.3	3.6	3.6	3.2	1.0	1.0
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000	4000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	20.8	17.4	13.8	10.2	2.5	2.5
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	6.8	7.5	7.2	6.7	2.1	2.6
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	349	348	349	330	337	277
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	100.0					
峰值电流 Peak current		I _{max}	Arms	37	48	59	74	95	115
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1000	1350	1650	2100	2750	3350
电机数据 Motor data									
极数 No. of poles		Poles		8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.94	2.25	1.84	1.47	1.14	0.94
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	205	157	128	103	80	66
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.16	0.70	0.46	0.29	0.18	0.12
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	25.6	14.9	10.0	6.40	3.87	2.61
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	24.5 (L) / 80.9 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	26.1 (L) / 82.5 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	26.1 (L) / 28.8 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	28.6 (L) / 31.3 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-01633-E	VC***-02033-E	VC***-02733-E	VC***-03233-E	VC***-04533-Ea	



143MH-口-4技术数据-220VAC

143MH-口-4 Technical data -220VAC

电机型号 Motor type			143MH-□00 412□23-4	143MH-□4R 915□23-4	143MH-□00 620□23-4	143MH-□7R 530□23-4
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	200 ... 250		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	36.0		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	19.6	24.5	31.5 49.0
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	30.0		
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	15.2	19.7	25.3 39.3
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	4.0	4.9	6.0 7.5
额定转速 Speed		n _N	r/min	1200	1500	2000 3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	32.2	30.9	28.7 24.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	17.5	21.0	25.1 32.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	191	187	189 176
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW	2.9	3.3	3.6 3.2
额定转速 Speed		n _N	r/min	1200	1500	2000 3000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	22.7	20.8	17.4 10.2
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	11.5	13.6	14.7 13.4
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	178	175	177 165
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000		
峰值扭矩 Peak torque		M _{max}	Nm	100.0		
峰值电流 Peak current		I _{max}	Arms	59	74	95 147
峰值扭矩转折点 (220VAC) Peak torque turning point (220VAC)		n _{nee}	r/min	900	1150	1500 2450
电机数据 Motor data						
极数 No. of poles			Poles	8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.84	1.47	1.14 0.73
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	128	103	80 51
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.46	0.29	0.18 0.072
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	10.0	6.40	3.87 1.60
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	24.5 (L) / 80.9 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	26.1 (L) / 82.5 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	26.1 (L) / 28.8 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	28.6 (L) / 31.3 (M)		
制动器数据 Brake data						
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				非标 non-standard		



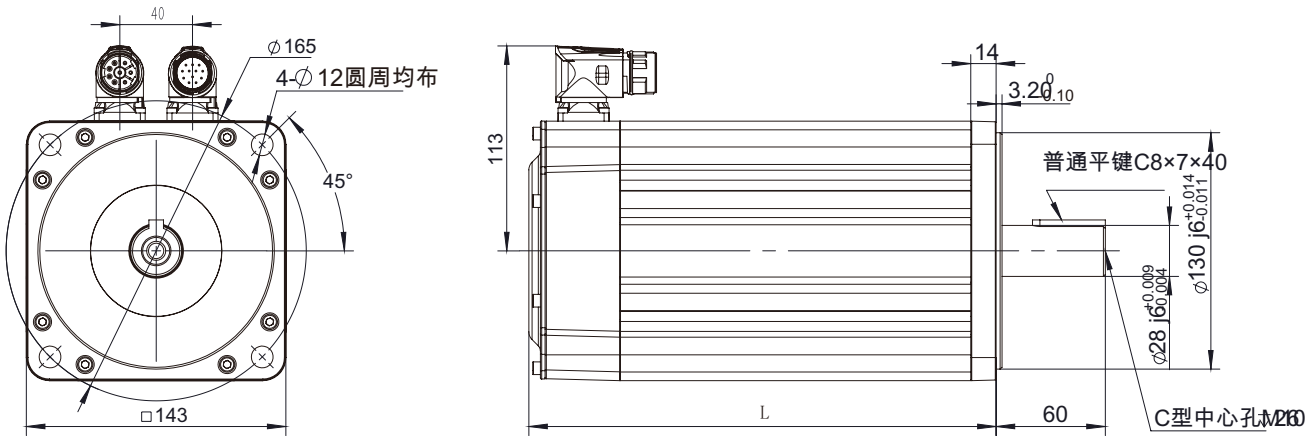
图例
KEY

- M_{max} @ 200VAC
- M_{max} @ 230VAC
- S₁ @ 100K

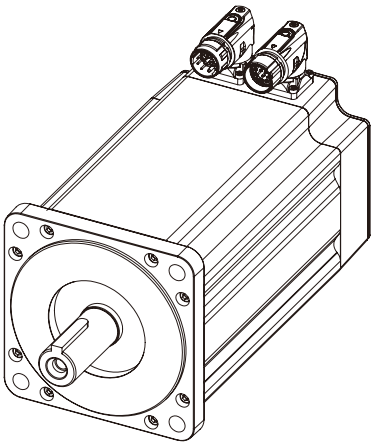
- P_N - 100K
- S₁ @ 60K
- ▲ P_N - 60K

143MH-口-口机械尺寸

143MH-口-口Mechanical dimensions



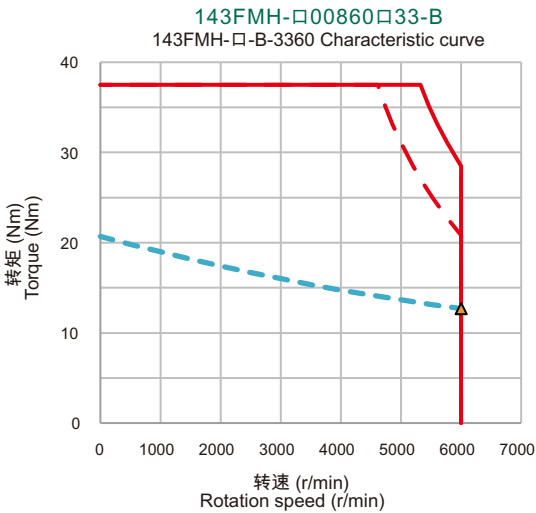
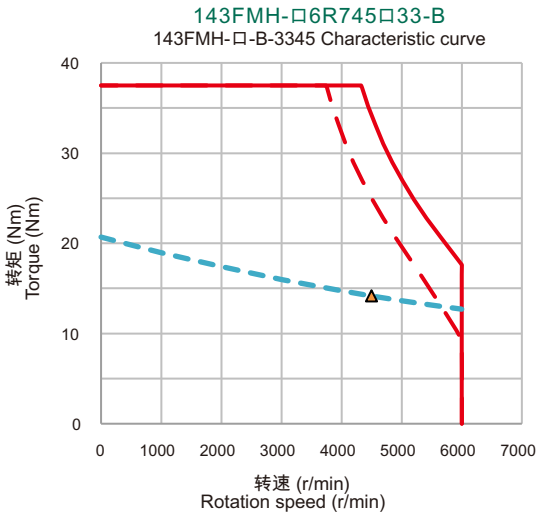
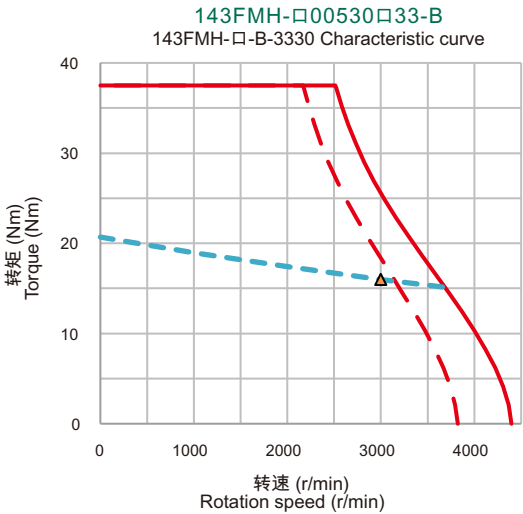
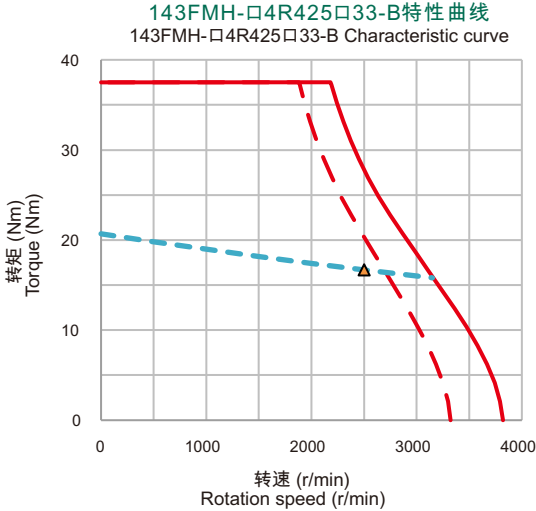
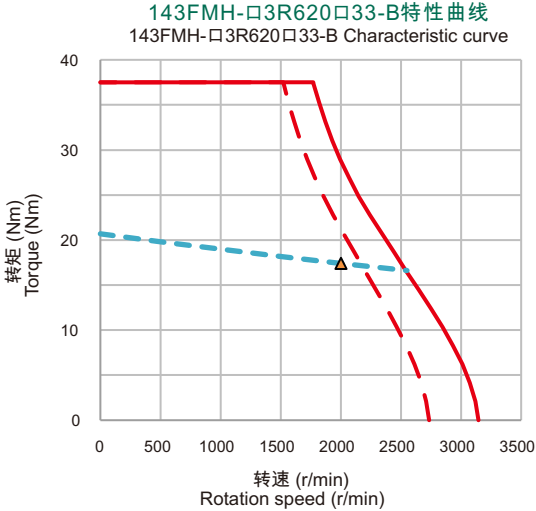
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
143MH-L-1	182	236
143MH-L-B	207	261
143MH-L-2	232	286
143MH-L-C	232	286
143MH-L-3	282	336
143MH-L-4	332	386
143MH-M-1	185.5	239.5
143MH-M-B	215.06	269.6
143MH-M-2	240.6	294.6
143MH-M-C	271.5	325.5
143MH-M-3	296.5	350.5
143MH-M-4	352	406



143FMH-□-B技术数据-380VAC

143FMH-□-B Technical data -380VAC

电机型号 Motor type			143FMH-□3R 620 □33-B	143FMH- □4R 425 □33-B	143FMH- □00 530 □33-B	143FMH- □6R 745 □33-B	143FMH- □00 860 □33-B	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms					
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm	20.7				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms	10.0	12.2	14.0	23.7	28.9
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm					
额定电流 (100K) Current (100K)		I _{N-100K}	Arms					
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC					
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	3.6	4.4	5.0	6.7	8.0
额定转速 Speed		n _N	r/min	2000	2500	3000	4500	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	17.4	16.7	16.0	14.2	12.7
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	8.4	9.8	10.8	16.2	17.8
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	371	373	383	326	345
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000				
峰值扭矩 Peak torque		M _{max}	Nm	37.5				
峰值电流 Peak current		I _{max}	Arms	20	25	29	48	59
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1500	1850	2150	3750	4600
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.07	1.70	1.48	0.87	0.72
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	139	114	99	59	48
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.65	1.07	0.90	0.34	0.22
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	31.3	21.2	16.0	5.60	3.75
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	9.63 (L) / 42.5 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	11.3 (L) / 44.2 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	17.0 (L) / 18.6 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	19.5 (L) / 21.1 (M)				
制动器数据 Brake data								
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)				M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver			VC***-1233-E	VC***-01633-E	VC***-02733-E	VC***-03233-E		



图例
KEY

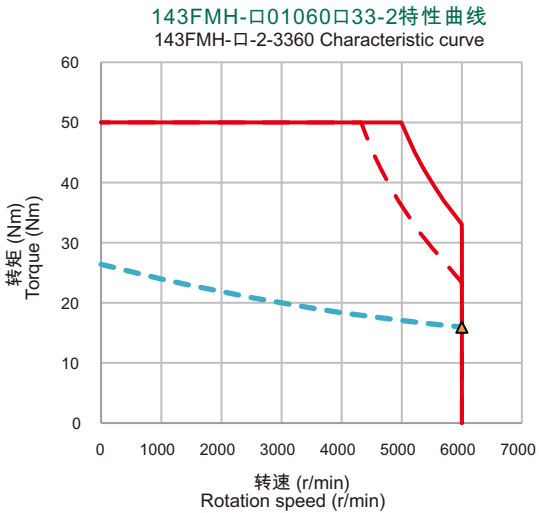
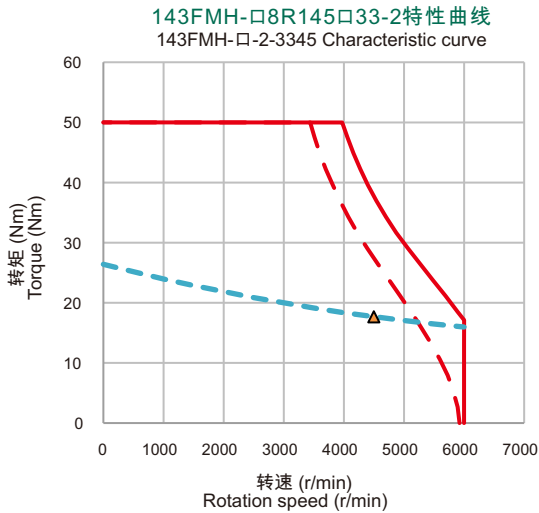
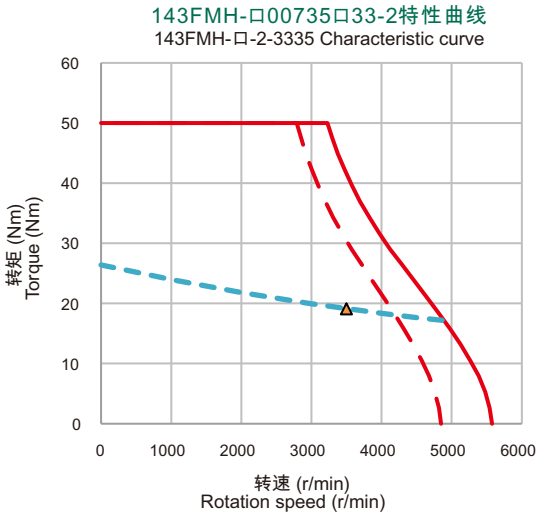
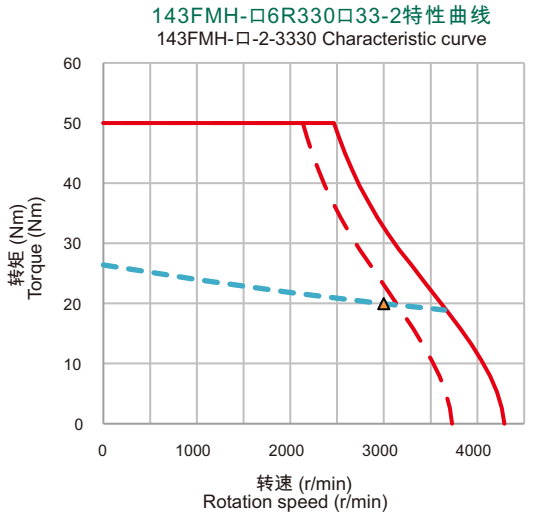
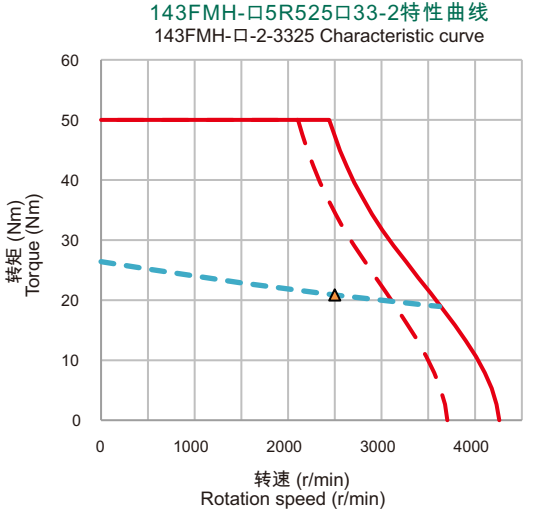
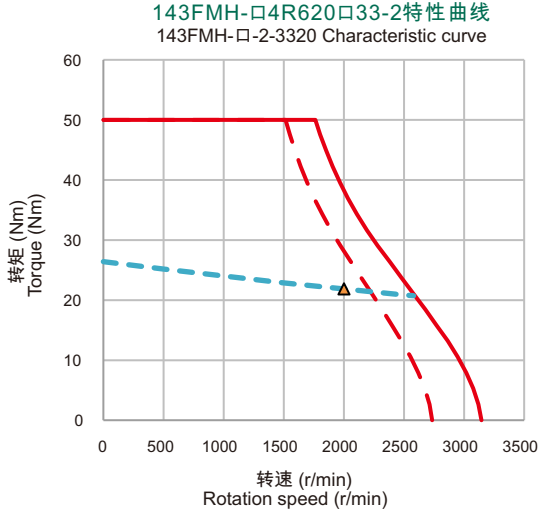
--- M_{max} @ 200VAC
— M_{max} @ 230VAC

--- S₁ @ 60K
▲ P_N - 60K

143FMH-□-2技术数据-380VAC

143FMH-□-2 Technical data -380VAC

电机型号 Motor type			143FMH-□4 R620□33-2	143FMH-□5 R525□33-2	143FMH-□6 R330□33-2	143FMH-□0 0735□33-2	143FMH-□8 R145□33-2	143FMH-□0 1060□33-2
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm					
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms					
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	26.4				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	12.8	17.3	17.4	22.7	27.7 34.6
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm					
额定电流 (100K) Current (100K)		I _{N-100K}	Arms					
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC					
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	4.6	5.5	6.3	7.0	8.1 10.1
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	4500 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	21.8	20.9	20.0	19.1	17.1 16.0
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	10.6	13.7	13.2	16.4	17.9 21.0
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	364	328	384	340	349 363
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000				
峰值扭矩 Peak torque		M _{max}	Nm	50.0				
峰值电流 Peak current		I _{max}	Arms	27	37	37	48	59 74
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1500	2100	2100	2750	3400 4300
电机数据 Motor data								
极数 No. of poles		Poles	8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.07	1.53	1.52	1.17	0.95 0.76
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	139	103	102	78	64 51
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.29	0.68	0.61	0.41	0.27 0.17
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	23.5	12.8	12.6	7.47	5.00 3.20
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	12.6 (L) / 45.5 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	14.2 (L) / 47.1 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	19.6 (L) / 21.2 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	22.1 (L) / 23.7 (M)				
制动器数据 Brake data								
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-1633-E	VC***-02033-E	VC***-02733-E	VC***-03233-E	VC***-03833-Ea



图例
KEY

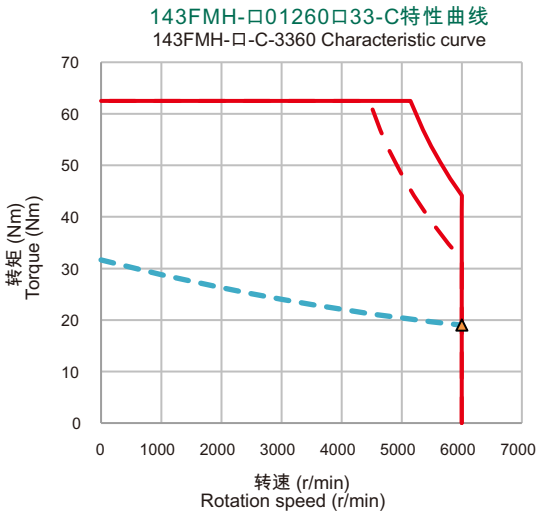
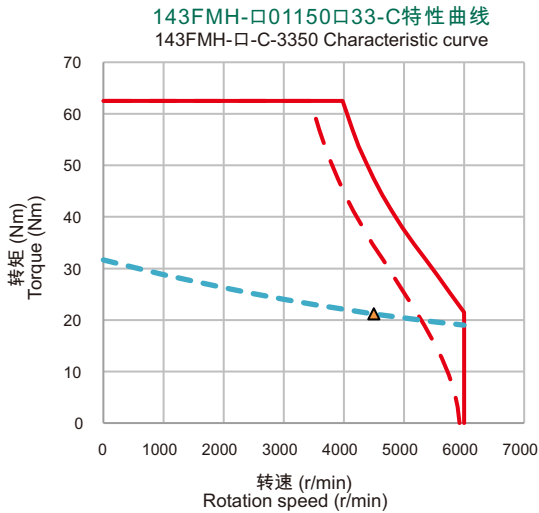
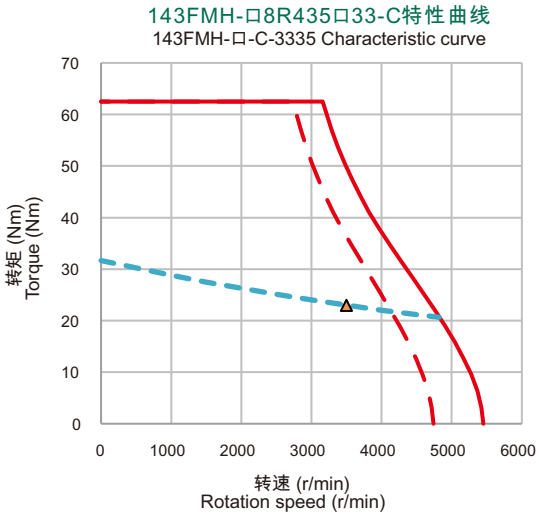
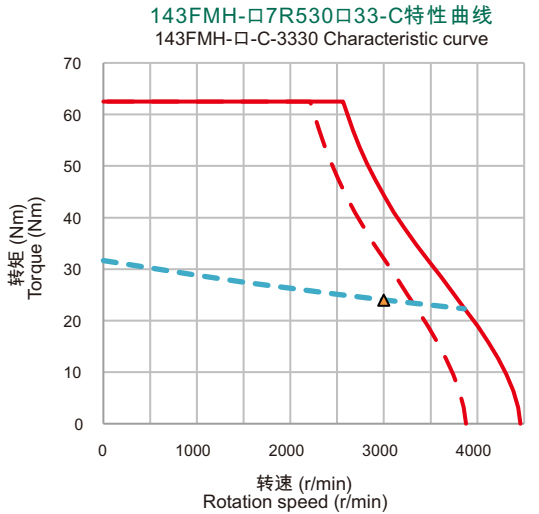
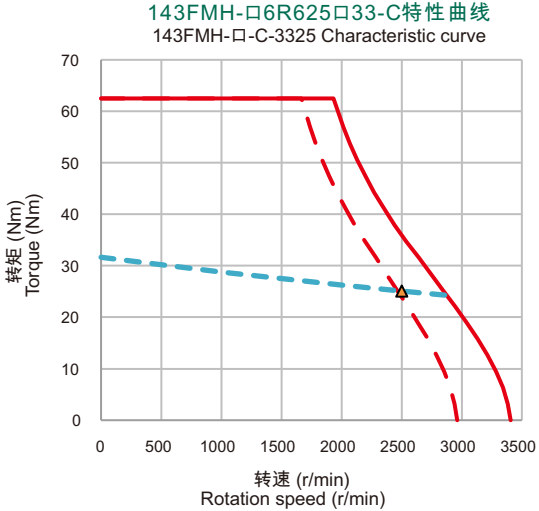
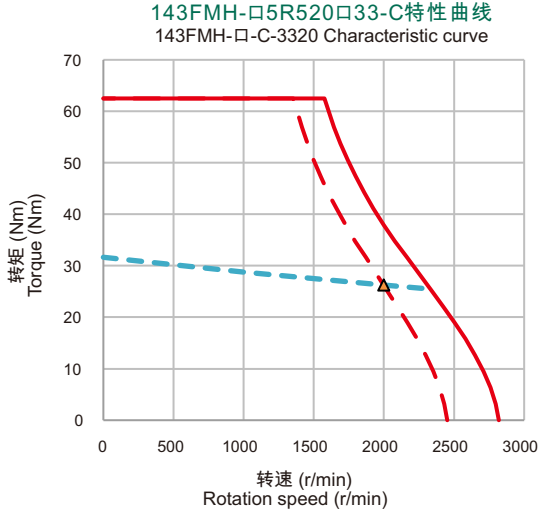
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 60K
▲ P_N - 60K

143FMH-□-C技术数据-380VAC

143FMH-□-C Technical data -380VAC

电机型号 Motor type			143FMH-□5 R520 □33-C	143FMH-□6 R625 □33-C	143FMH-□7 R530 □33-C	143FMH-□8 R435 □33-C	143FMH-□0 1150 □33-C	143FMH-□0 1260 □33-C	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit						值 Value
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm						
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms						
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	31.6					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	13.7	16.6	21.7	26.5	33.1	42.6
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW						
额定转速 Speed		n _N	r/min						
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm						
额定电流 (100K) Current (100K)		I _{N-100K}	Arms						
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC						
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	5.5	6.6	7.5	8.4	10.7	11.9
额定转速 Speed		n _N	r/min	2000	2500	3000	3500	5000	6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	26.3	25.1	24.0	23.0	20.4	19.0
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	11.4	13.2	16.5	19.3	21.4	25.6
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	400	405	365	344	345	349
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	62.5					
峰值电流 Peak current		I _{max}	Arms	30	37	48	59	74	95
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1350	1650	2200	2700	3450	4450
电机数据 Motor data									
极数 No. of poles		Poles		8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.30	1.91	1.46	1.19	0.95	0.74
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	155	128	98	80	64	50
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	1.22	0.80	0.48	0.31	0.20	0.12
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	23.4	16.00	9.34	6.25	4.00	2.42
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	15.6 (L) / 60.6 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	17.2 (L) / 62.3 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	22.6 (L) / 24.8 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	25.1 (L) / 27.3 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-1633-E	VC***-02033-E	VC***-02733-E	VC***-03833-Ea	VC***-04533-Ea	



图例
KEY

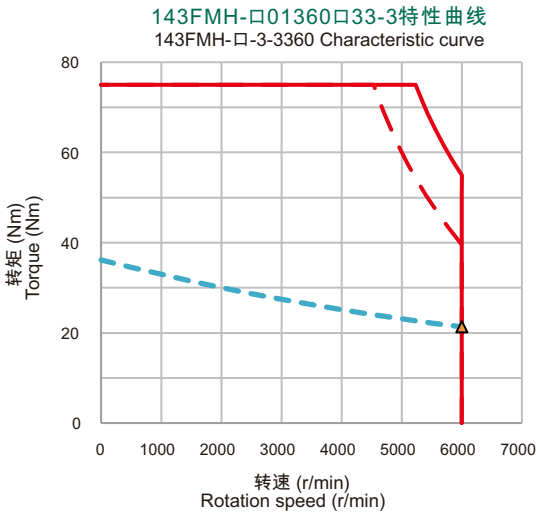
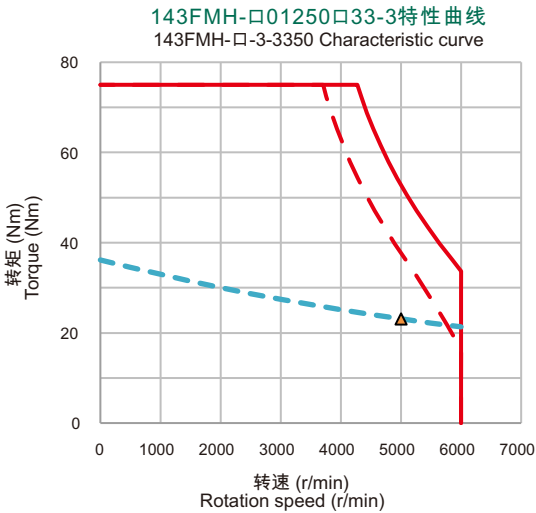
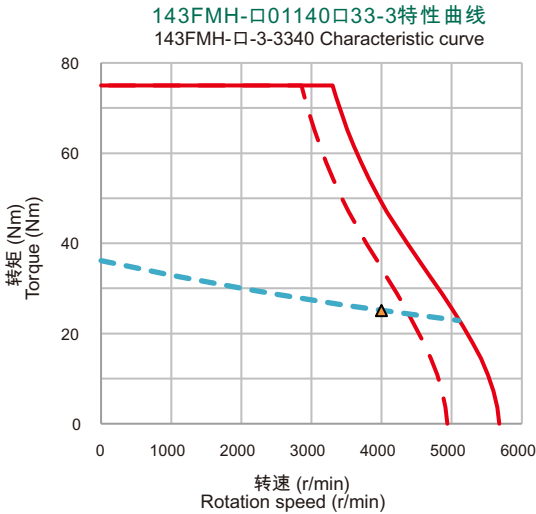
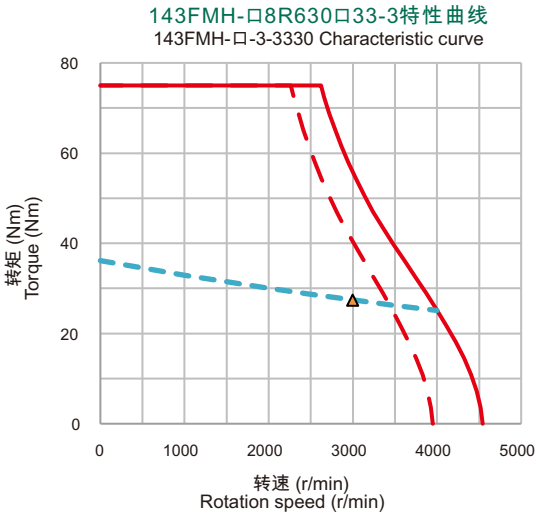
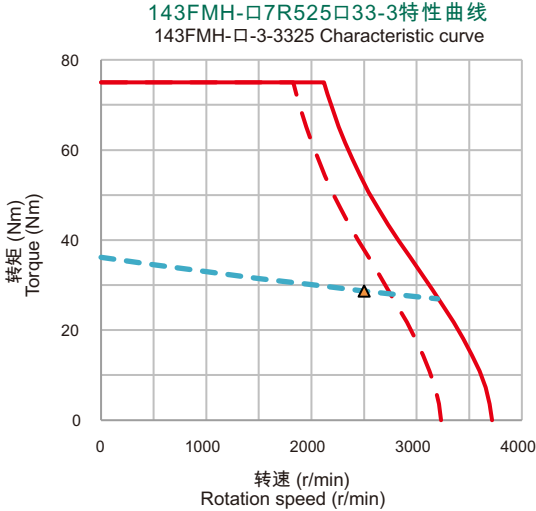
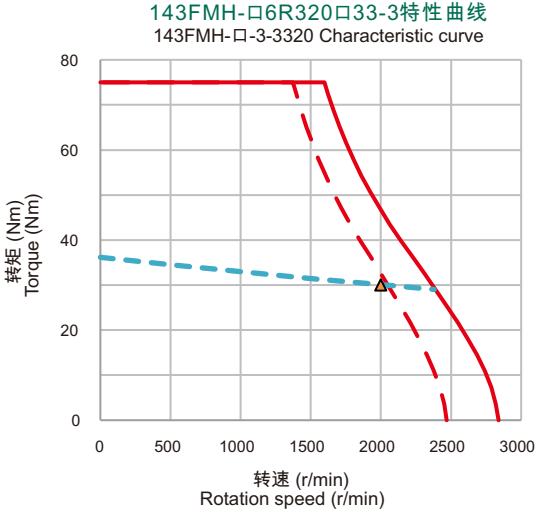
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 60K
▲ P_N - 60K

143FMH-□-3技术数据-380VAC

143FMH-□-3 Technical data -380VAC

电机型号 Motor type			143FMH-□6 R320□33-3	143FMH-□7 R525□33-3	143FMH-□8 R630□33-3	143FMH-□0 1140□33-3	143FMH-□0 1250□33-3	143FMH-□0 1360□33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value				
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm						
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms						
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	36.2					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	15.8	20.7	25.3	31.6	40.7 49.5	
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW						
额定转速 Speed		n _N	r/min						
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm						
额定电流 (100K) Current (100K)		I _{N-100K}	Arms						
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC						
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW	6.3	7.5	8.6	10.5	12.1 13.4	
额定转速 Speed		n _N	r/min	2000	2500	3000	4000	5000 6000	
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	30.1	28.7	27.4	25.1	23.1 21.3	
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	13.2	16.4	19.2	21.9	26.0 29.1	
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	391	367	354	368	351 340	
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000					
峰值转矩 Peak torque		M _{max}	Nm	75.0					
峰值电流 Peak current		I _{max}	Arms	37	48	59	74	95 115	
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1350	1800	2250	2850	3700 4500	
电机数据 Motor data									
极数 No. of poles		Poles	8						
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.29	1.75	1.43	1.14	0.89 0.73	
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	154	118	96	77	60 49	
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.92	0.56	0.36	0.23	0.14 0.092	
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	19.2	11.2	7.50	4.80	2.90 1.96	
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	18.6 (L) / 63.6 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	20.2 (L) / 65.2 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	25.1 (L) / 27.3 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	27.6 (L) / 29.8 (M)					
制动器数据 Brake data									
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)			M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-1633-E	VC***-02733-E	VC***-03233-E	VC***-04533-Ea	VC***-06033-EA	



图例
KEY

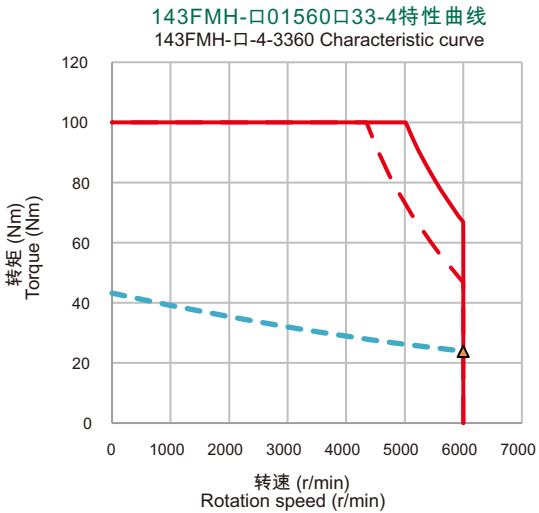
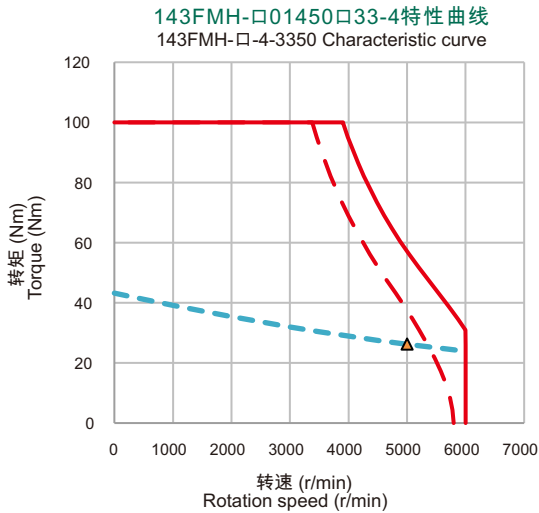
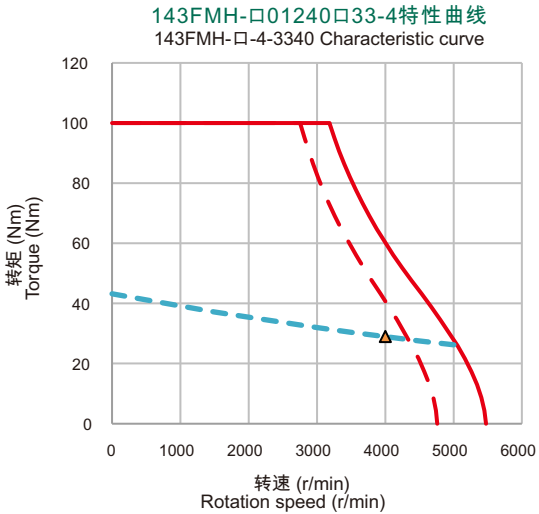
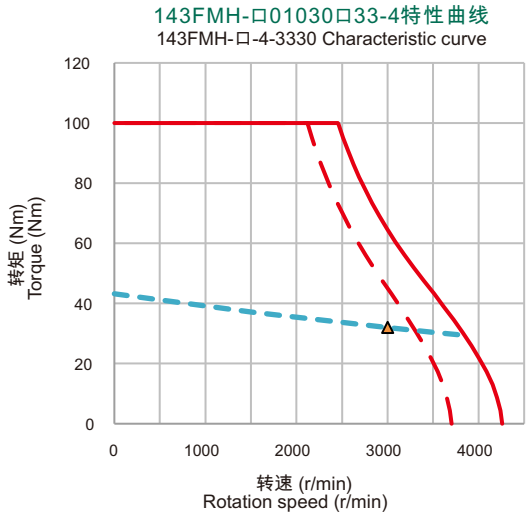
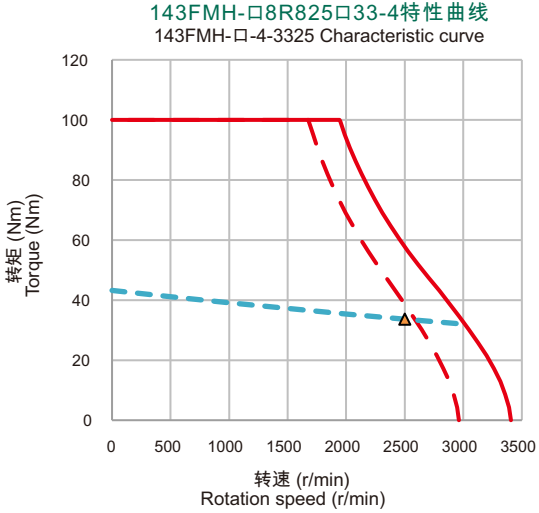
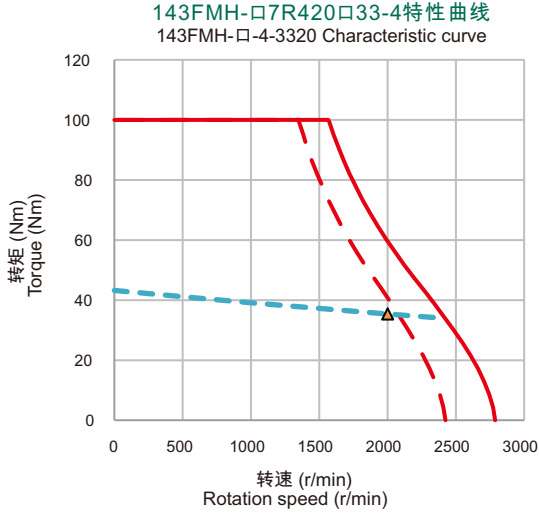
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 60K
▲ P_N - 60K

143FMH-□-4技术数据-380VAC

143FMH-□-4 Technical data -380VAC

电机型号 Motor type			143FMH-□7 R420□33-4	143FMH-□8 R825□33-4	143FMH-□0 1030□33-4	143FMH-□0 1240□33-4	143FMH-□0 1450□33-4	143FMH-□0 1560□33-4
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm					
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms					
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm	43.2				
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms	18.5	22.7	28.3	36.4	44.3 56.6
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm					
额定电流 (100K) Current (100K)		I _{N-100K}	Arms					
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC					
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW	7.4	8.8	10.1	12.1	13.8 15.0
额定转速 Speed		n _N	r/min	2000	2500	3000	4000	5000 6000
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm	35.4	33.7	32.0	29.0	26.3 23.9
额定电流 (60K) Current (60K)		I _{N-60K}	Arms	15.2	17.7	21.0	24.4	27.0 31.3
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC	386	387	366	371	374 347
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	6000				
峰值转矩 Peak torque		M _{max}	Nm	100.0				
峰值电流 Peak current		I _{max}	Arms	48	59	74	95	115 147
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1350	1650	2100	2750	3350 4350
电机数据 Motor data								
极数 No. of poles		Poles	8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.33	1.91	1.53	1.19	0.97 0.76
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	157	128	103	80	66 51
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.70	0.46	0.29	0.18	0.12 0.072
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	14.9	10.0	6.40	3.87	2.61 1.60
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	24.5 (L) / 80.9 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	26.1 (L) / 82.5 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	30.1 (L) / 32.8 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	32.6 (L) / 35.3 (M)				
制动器数据 Brake data								
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	40.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	1.17 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	28.0 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-2033-E	VC***-02733-E	VC***-03233-E	VC***03833-Ea	VC***-04533-Ea VC***-06033-EA

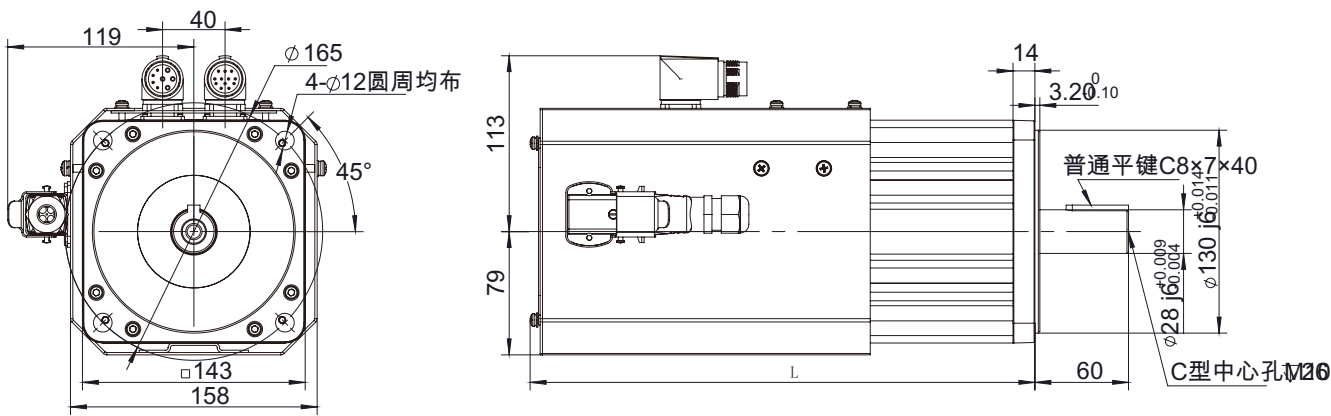


图例
KEY

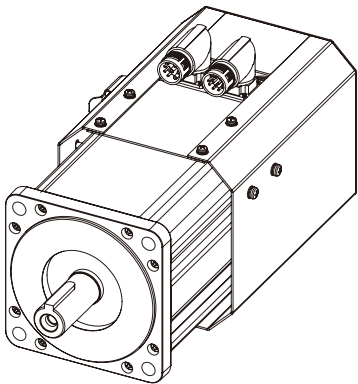
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 60K
▲ P_N - 60K

143FMH-□-□机械尺寸
126MH-□-□Mechanical dimensions



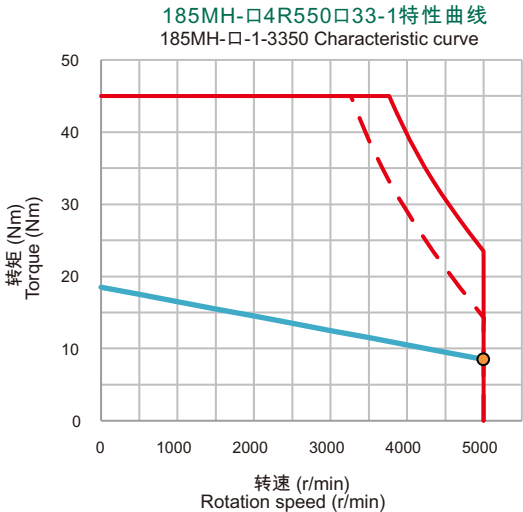
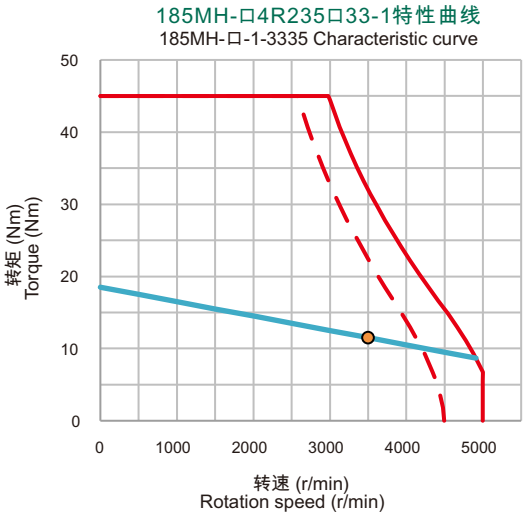
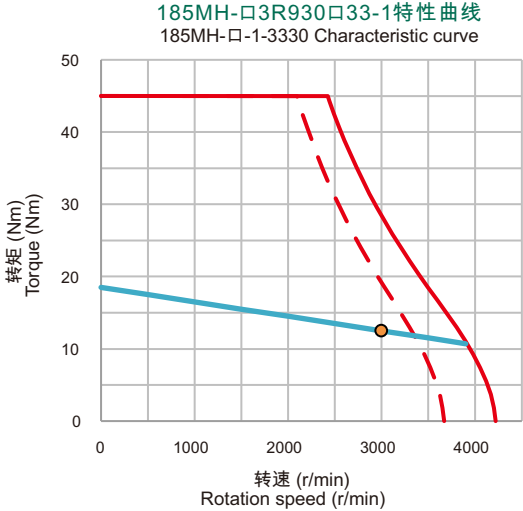
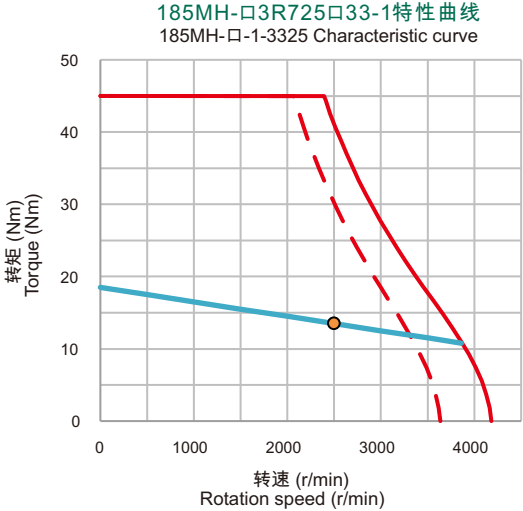
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
143FMH-L-B	277	331
143FMH-L-2	302	356
14SFMH-L-C	327	381
14SFMH-L-3	352	406
143FMH-L-4	402	456
143FMH-M-B	277	331
143FMH-M-2	302	356
143FMH-M-C	302	356
143FMH-M-3	352	406
143FMH-M-4	402	456



185MH-□-1技术数据-380VAC

185MH-□-1Technical data -380VAC

电机型号 Motor type			185MH-□3R 725□33-1	185MH-□3R 930□33-1	185MH-□4R 235□33-1	185MH-□4R 550□33-1
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value	
选型数据 Selection Data						
工作电压 Operating Voltage		U	V AC	380 ... 480		
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	18.5		
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	12.2	12.3	15.1 18.9
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm			
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms			
额定工作点 (100K) Rated operating point (100K)						
额定功率 (100K) Power (100K)		P _{N-100K}	kW	3.7	3.9	4.2 4.5
额定转速 Speed		n _N	r/min	2500	3000	3500 5000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	14.0	12.5	11.5 8.5
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	9.3	8.3	9.4 8.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	313	365	340 373
额定工作点 (60K) Rated operating point (60K)						
额定功率 (60K) Power (60K)		P _{N-60K}	kW			
额定转速 Speed		n _N	r/min			
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm			
额定电流 (60K) Current (60K)		I _{N-60K}	Arms			
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC			
极限数据 Limit data						
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	5000		
峰值扭矩 Peak torque		M _{max}	Nm	45.0		
峰值电流 Peak current		I _{max}	Arms	31	31	38 47
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	2050	2100	2550 3250
电机数据 Motor data						
极数 No. of poles			Poles	8		
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	1.51	1.50	1.22 0.98
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	105	104	85 67
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.66	0.59	0.42 0.25
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	15.0	14.7	9.82 6.25
转动惯量 (无制动器) Rotary inertia(No brake)		J	104kgm ²	19.2 (L) / 78.6 (M)		
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	104kgm ²	25.5 (L) / 84.9 (M)		
电机重量 (无制动器) Weight(No brake)		m	kg	24.2 (L) / 28.9 (M)		
电机重量 (带制动器) Weight(With brake)		m _b	kg	31.2 (L) / 35.9 (M)		
制动器数据 Brake data						
制动器类型 Type				永磁式 Permanent magnet type		
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0		
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0		
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%		
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%		
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%		
连接器类型 Connector Type						
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)		
适配驱动器 Matcheddriver						
适配驱动器 Matcheddriver				VC***-1633-E		VC***-02033-E



图例
KEY

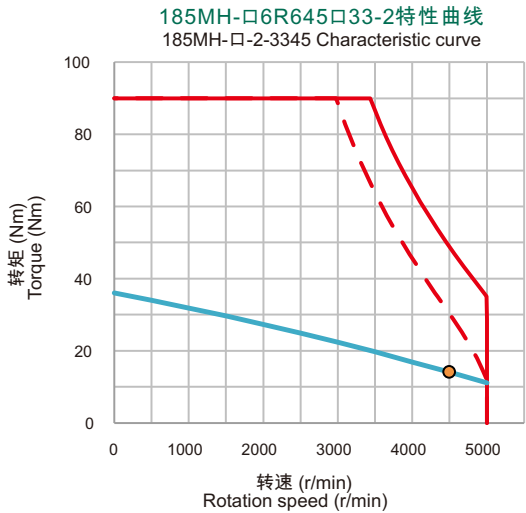
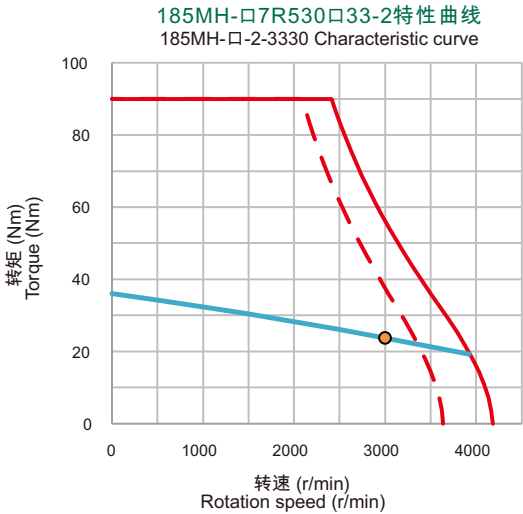
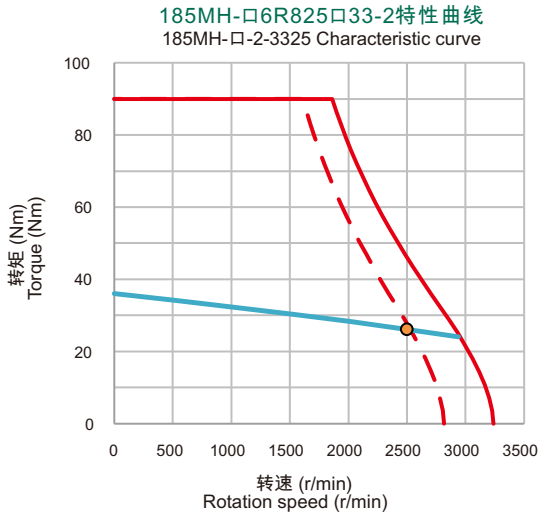
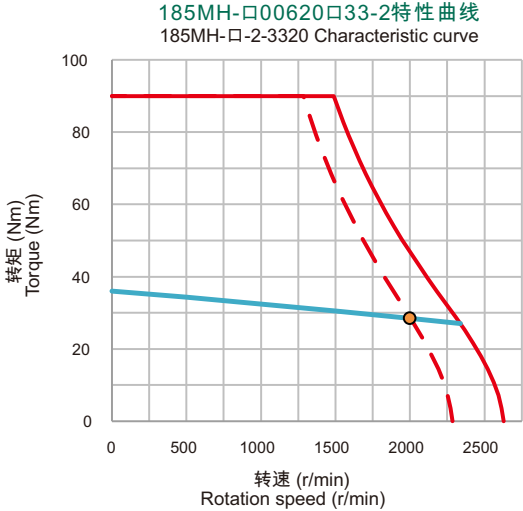
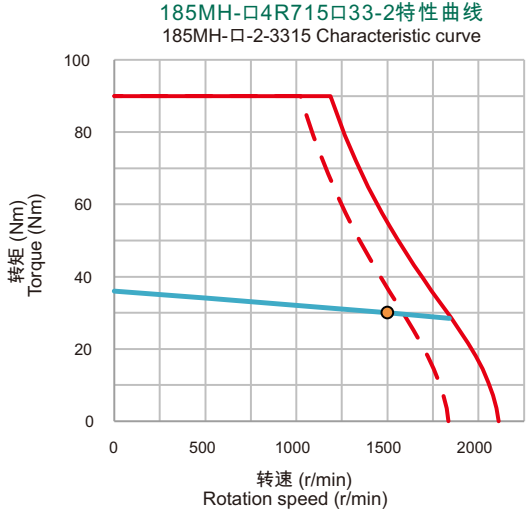
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185MH-□-2技术数据-380VAC

185MH-□-2Technical data -380VAC

电机型号 Motor type			185MH-□4R 715□33-2	185MH-□00 620□33-2	185MH-□6R 825□33-2	185MH-□7R 530□33-2	185MH-□6R 645□33-2
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	36.0			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	12.0	15.0	18.4	23.8 33.6
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	4.7	6.0	6.8	7.5 6.6
额定转速 Speed		n _N	r/min	1500	2000	2500	3000 4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	30.0	28.5	26.1	23.8 14.1
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	9.9	11.8	13.4	15.7 13.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	379	399	396	362 363
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	5000			
峰值扭矩 Peak torque		M _{max}	Nm	90.0			
峰值电流 Peak current		I _{max}	Arms	31	39	47	61 86
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1000	1250	1600	2050 2950
电机数据 Motor data							
极数 No. of poles			Poles	8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.00	2.41	1.95	1.51 1.07
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	207	166	135	105 74
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.92	0.65	0.39	0.26 0.12
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	29.5	19.0	12.5	7.50 3.77
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	35.5 (L) / 94.8 (M)			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	41.8 (L) / 101 (M)			
电机重量 (无制动器) Weight(No brake)		m	kg	29.6 (L) / 34.3 (M)			
电机重量 (带制动器) Weight(With brake)		m _b	kg	36.6 (L) / 41.3 (M)			
制动器数据 Brake data							
制动器类型 Type				永磁式 Permanent magnet type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		M40 8-Pin (双电缆) (Dual cable) M40 11-Pin (单电缆) (Single cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-1233-E	VC***-1633-E	VC***-02033-E	VC***-02733-E VC***-03833-Ea



图例
KEY

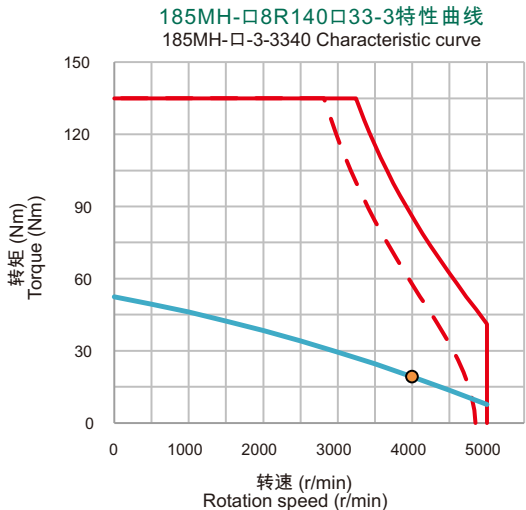
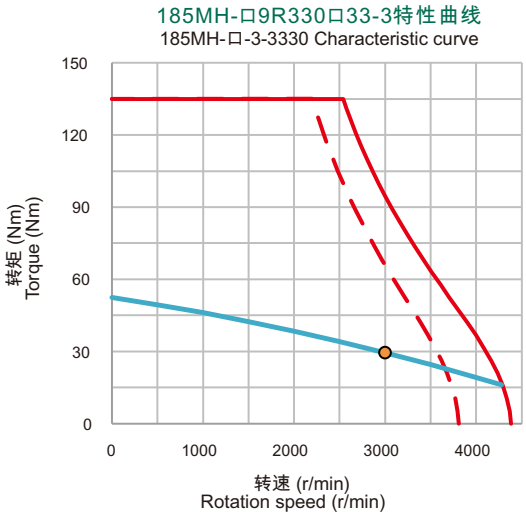
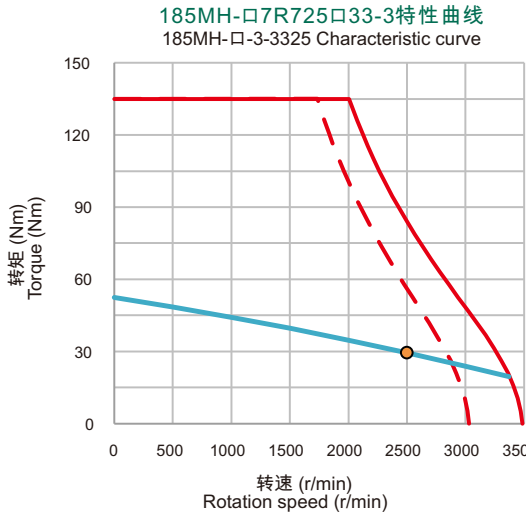
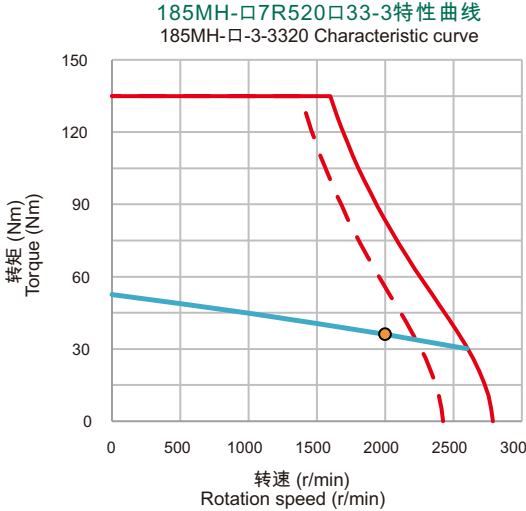
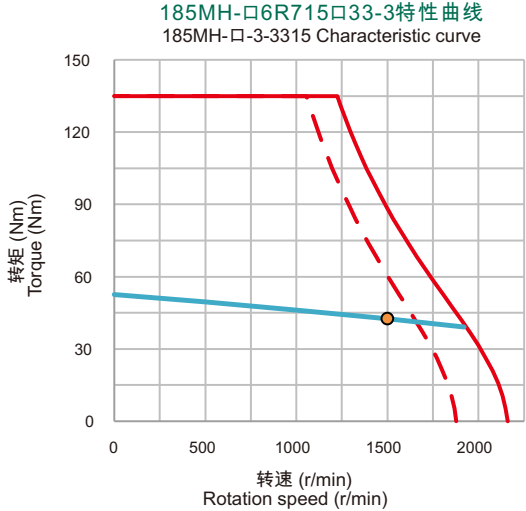
--- M_{max} @ 400VAC
—— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185MH-口-3技术数据-380VAC

185MH-口-3Technical data -380VAC

电机型号 Motor type			185MH-□6R 715□33-3	185MH-□7R 520□33-3	185MH-□7R 725□33-3	185MH-□9R 330□33-3	185MH-□8R 140□33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	52.5				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	17.9	23.1	28.9	36.4	46.3
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	6.7	7.5	7.7	9.3	8.1
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	42.5	36.0	29.5	29.5	19.3
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	14.5	15.9	16.3	20.4	17.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	365	363	353	336	340
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	5000				
峰值扭矩 Peak torque		M _{max}	Nm	135				
峰值电流 Peak current		I _{max}	Arms	47	61	77	96	123
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1050	1350	1700	2200	2800
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.93	2.27	1.81	1.44	1.13
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	202	157	125	100	78
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.53	0.31	0.22	0.14	0.087
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	18.7	11.3	7.20	4.56	2.81
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	51.8 (L) / 175 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	58.1 (L) / 182 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	35.0 (L) / 44.8 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	42.0 (L) / 51.8 (M)				
制动器数据 Brake data								
制动器类型 Type				永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector			M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)		M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver			VC***-2033-E	VC***-02733-E	VC***-03233-E	VC***-03833-Ea	VC***-06033-EA	



图例
KEY

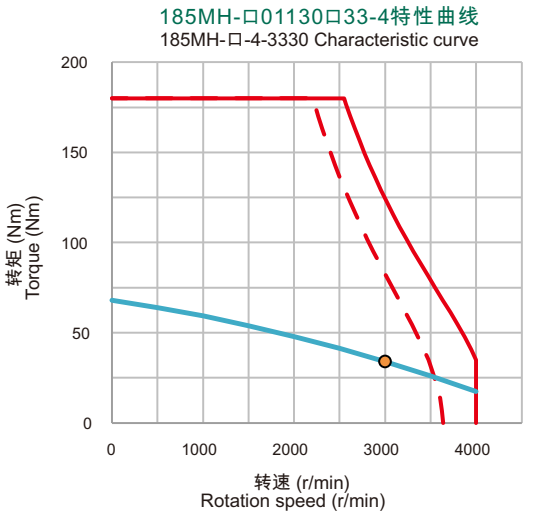
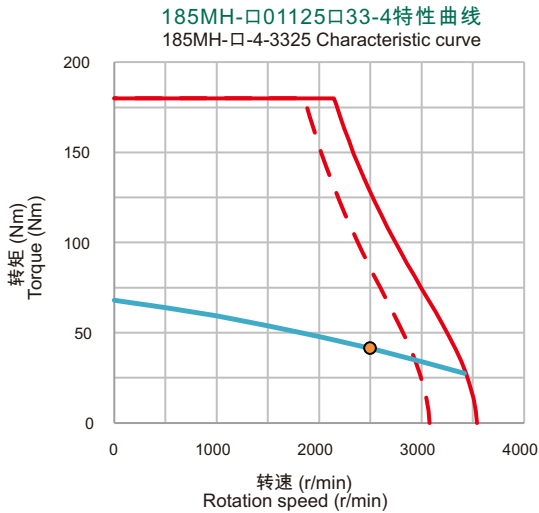
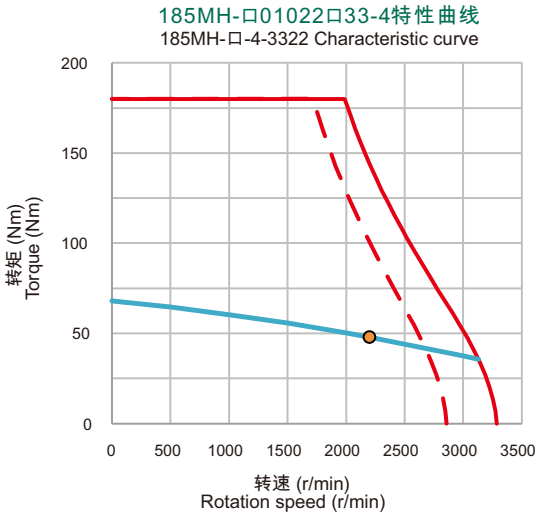
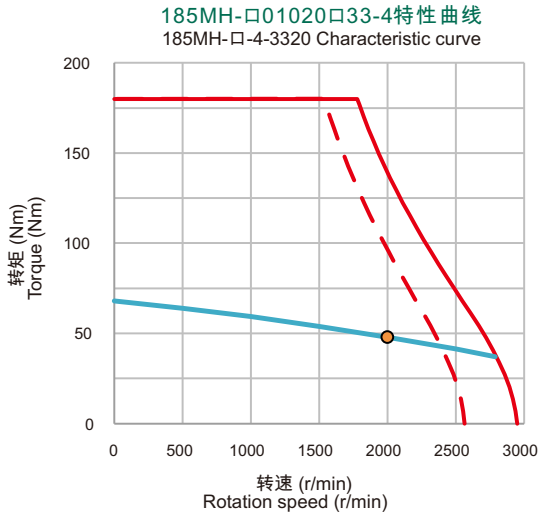
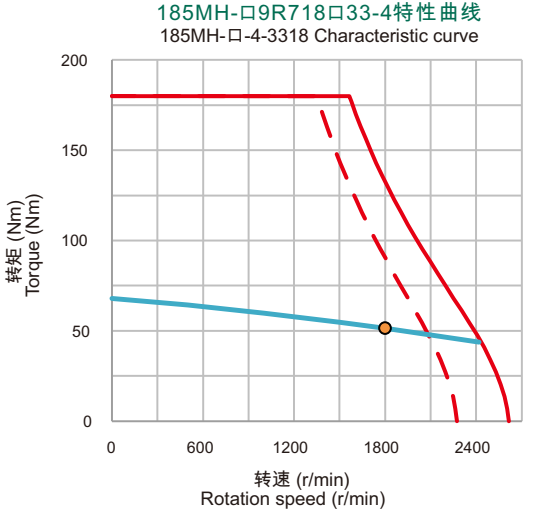
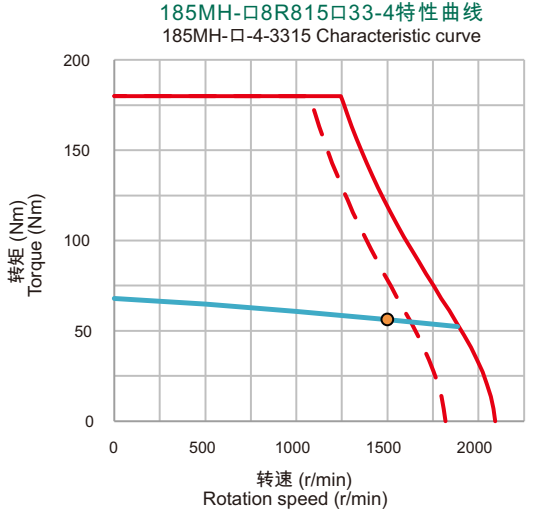
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185MH-□-4技术数据-380VAC

185MH-□-4Technical data -380VAC

电机型号 Motor type			185MH-□8R 815□33-4	185MH-□9R 718□33-4	185MH-□01 020□33-4	185MH-□0 1022□33-4	185MH-□0 1125□33-4	185MH-□0 1130□33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit	值 Value					
选型数据 Selection Data									
工作电压 Operating Voltage		U	V AC	380 ... 480					
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	68.0					
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	22.5	28.1	31.7	35.3	38.1	45.0
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm						
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms						
额定工作点 (100K) Rated operating point (100K)									
额定功率 (100K) Power (100K)		P _{N-100K}	kW	8.8	9.7	10.0	10.2	10.8	10.7
额定转速 Speed		n _N	r/min	1500	1800	2000	2200	2500	3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	56.3	51.5	47.9	44.3	41.3	34.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	18.6	21.3	22.3	23.0	23.1	22.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	371	350	340	332	347	345
额定工作点 (60K) Rated operating point (60K)									
额定功率 (60K) Power (60K)		P _{N-60K}	kW						
额定转速 Speed		n _N	r/min						
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm						
额定电流 (60K) Current (60K)		I _{N-60K}	Arms						
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC						
极限数据 Limit data									
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	4000					
峰值扭矩 Peak torque		M _{max}	Nm	180					
峰值电流 Peak current		I _{max}	Arms	61	77	86	96	104	123
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{knee}	r/min	1050	1350	1500	1700	1850	2200
电机数据 Motor data									
极数 No. of poles		Poles	8						
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.02	2.42	2.14	1.92	1.79	1.51
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	209	167	148	133	123	104
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.44	0.31	0.23	0.20	0.17	0.12
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	13.7	8.79	6.90	5.56	4.79	3.43
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	68.1 (L) / 235 (M)					
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	74.4 (L) / 241 (M)					
电机重量 (无制动器) Weight(No brake)		m	kg	40.4 (L) / 53.6 (M)					
电机重量 (带制动器) Weight(With brake)		m _b	kg	55.0 (L) / 60.6 (M)					
制动器数据 Brake data									
制动器类型 Type				永磁式 Permanent magnet type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0					
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0					
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%					
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%					
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%					
连接器类型 Connector Type									
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)				
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver									
适配驱动器 Matcheddriver				VC***-02733-E	VC***-03233-E	VC***-03833-Ea		VC***-04533-Ea	



图例
KEY

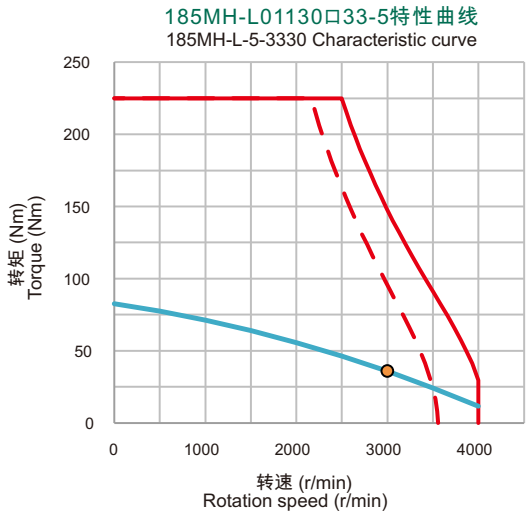
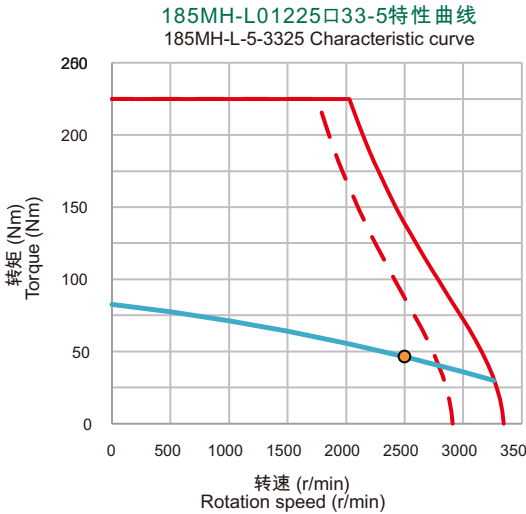
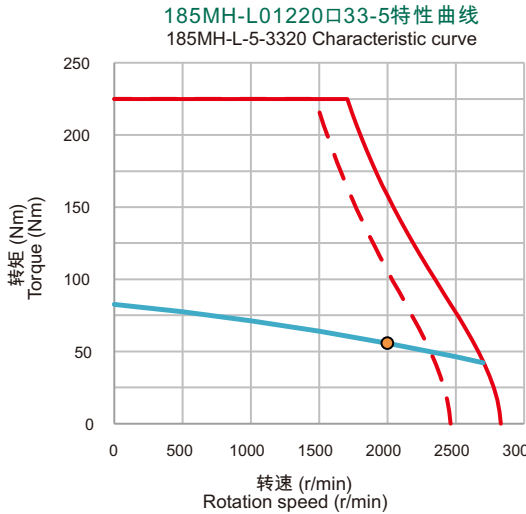
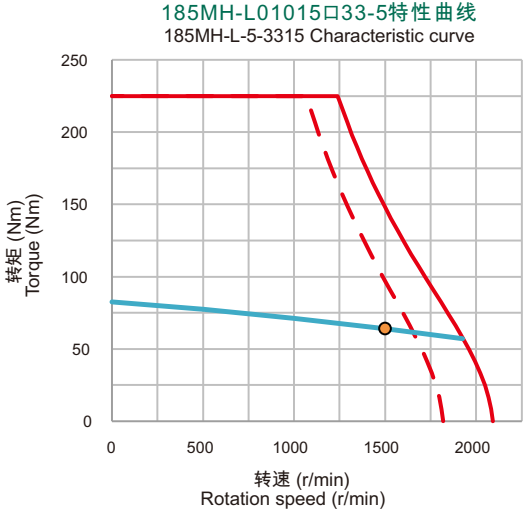
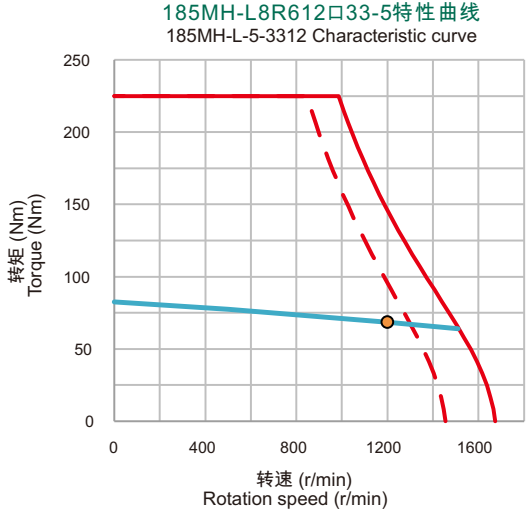
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185MH-L-5技术数据-380VAC

185MH-L-5Technical data -380VAC

电机型号 Motor type			185MH-L8 R612 口 33-5	185MH-L0 1015 口 33-5	185MH-L0 1220 口 33-5	185MH-L0 1225 口 33-5	185MH-L0 1130 口 33-5	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	82.5				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	21.8	27.3	36.9	43.7	53.4
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	8.6	10.1	11.7	12.1	11.3
额定转速 Speed		n _N	r/min	1200	1500	2000	2500	3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	68.5	64.0	55.7	46.3	35.9
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	18.1	21.2	24.9	24.5	23.2
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	371	366	351	363	349
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	4000				
峰值转矩 Peak torque		M _{max}	Nm	225				
峰值电流 Peak current		I _{max}	Arms	61	77	104	123	150
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	850	1050	1450	1750	2150
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.78	3.02	2.23	1.89	1.55
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	261	209	154	131	107
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.52	0.37	0.20	0.15	0.095
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	17.2	11.0	5.99	4.29	2.87
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	87.5				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	---				
电机重量 (无制动器) Weight(No brake)		m	kg	45.8				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---				
制动器数据 Brake data								
制动器类型 Type				---				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---				
制动器额定电压 Brake rated voltage		U _{br}	V DC	---				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	---				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable) M23 9-Pin (单电缆) (Single cable)	M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-02733-E	VC***-03233-E	VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA



图例
KEY

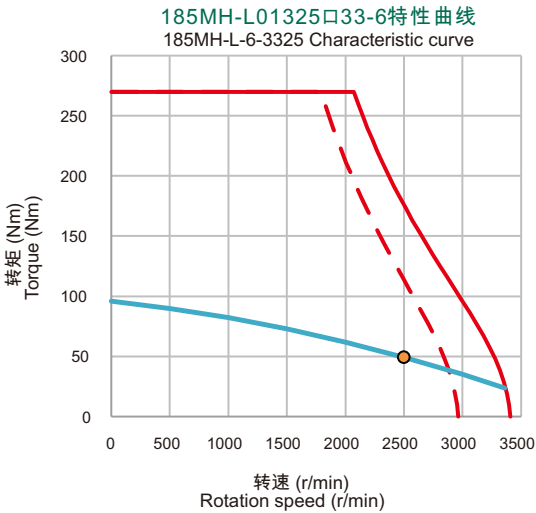
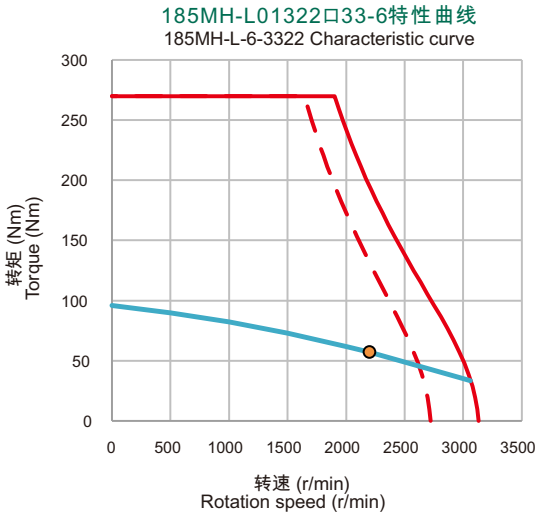
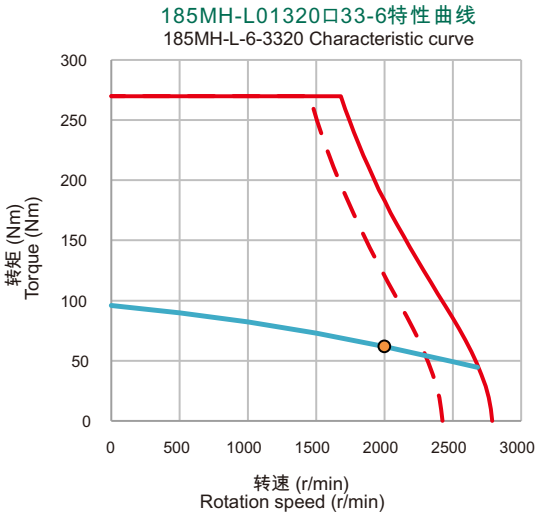
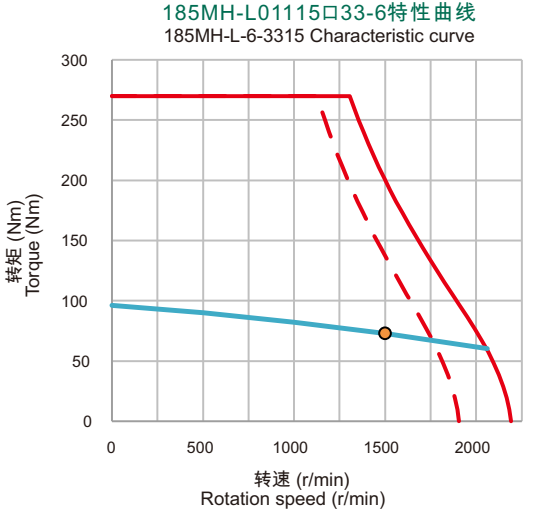
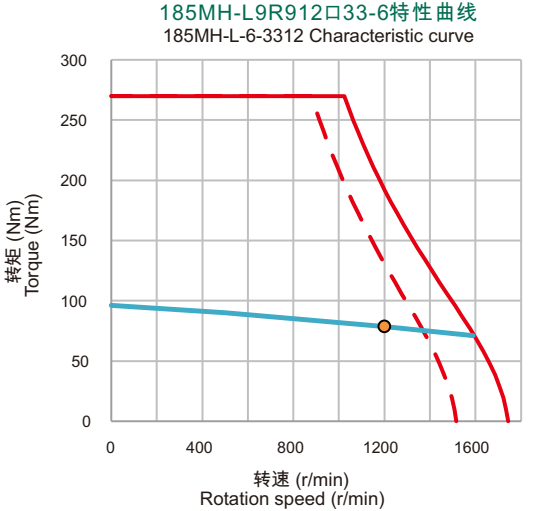
--- M_{max} @ 400VAC
--- M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185MH-L-6技术数据-380VAC

185MH-L-6Technical data -380VAC

电机型号 Motor type			185MH-L9 R912 □ 33-6	185MH-L0 1115 □ 33-6	185MH-L0 1320 □ 33-6	185MH-L0 1322 □ 33-6	185MH-L0 1325 □ 33-6	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	96.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	26.5	33.3	42.3	47.5	51.7
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	9.9	11.4	12.9	13.1	12.9
额定转速 Speed		n _N	r/min	1200	1500	2000	2200	2500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	78.6	72.8	61.8	57.0	49.2
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	21.7	25.2	27.2	28.2	26.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	354	346	353	342	352
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	4000				
峰值转矩 Peak torque		M _{max}	Nm	270				
峰值电流 Peak current		I _{max}	Arms	77	96	123	138	150
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	850	1100	1450	1600	1750
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.63	2.89	2.27	2.02	1.86
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	251	199	157	140	128
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.43	0.27	0.17	0.12	0.11
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	13.2	8.34	5.15	4.09	3.45
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	104				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	---				
电机重量 (无制动器) Weight(No brake)		m	kg	51.2				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---				
制动器数据 Brake data								
制动器类型 Type				---				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---				
制动器额定电压 Brake rated voltage		U _{br}	V DC	---				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	---				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---				
连接器类型 Connector Type								
动力连接器类型 Power connector			M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)					
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver			VC***-02733-E	VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA		



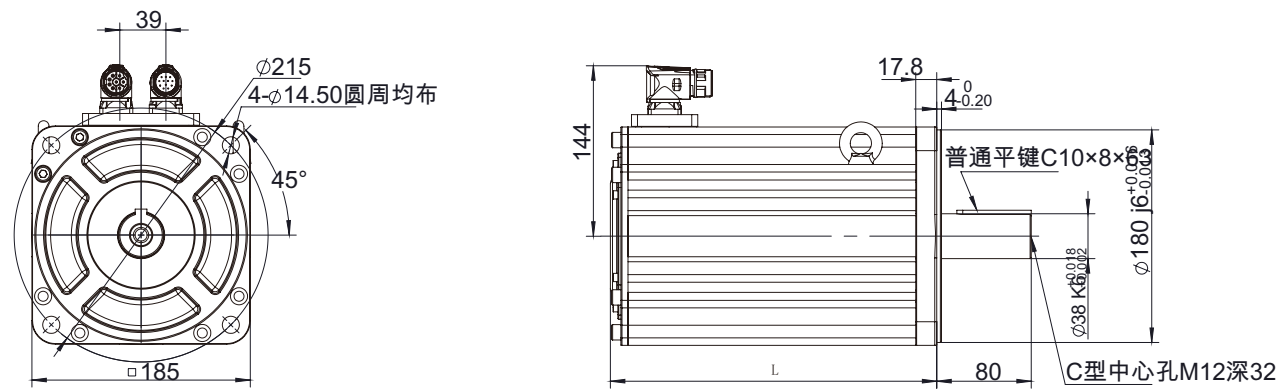
图例
KEY

--- M_{max} @ 400VAC
— M_{max} @ 460VAC

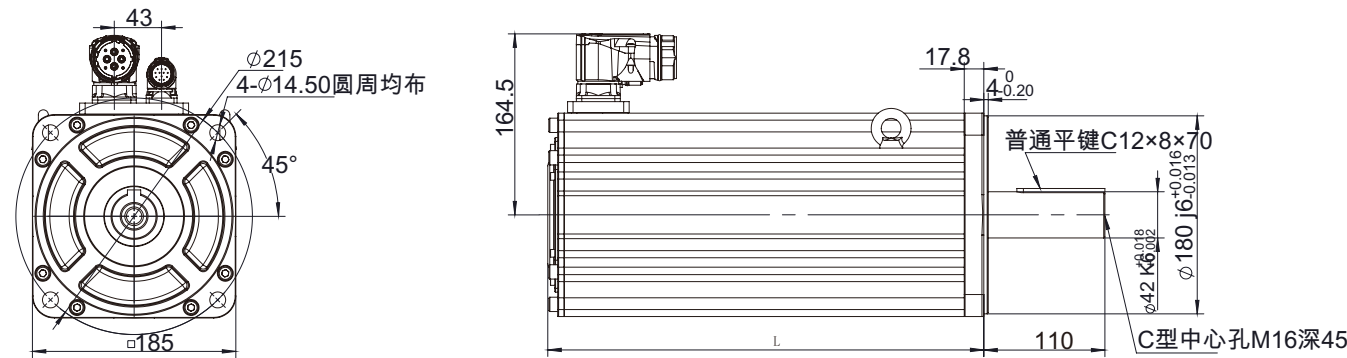
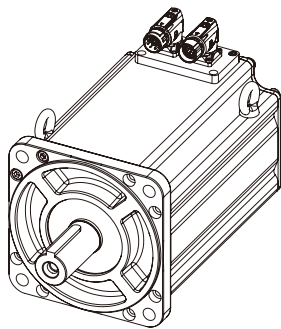
--- S₁ @ 100K
● P_N - 100K

185MH-口-口机械尺寸

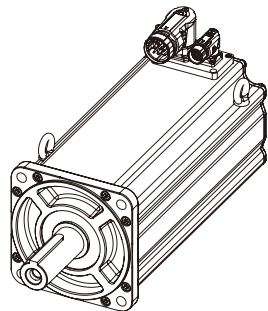
185MH-口-口Mechanical dimensions



电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
185MH-L-1	176.3	261.6
185MH-L-2	226.3	311.6
185MH-L-3	276.3	361.6
185MH-L-4	326.3	411.6
185MH-M-1	188.7	274
185MH-M-2	238.7	324
185MH-M-3	298	383.3
185MH-M-4	355	440.3



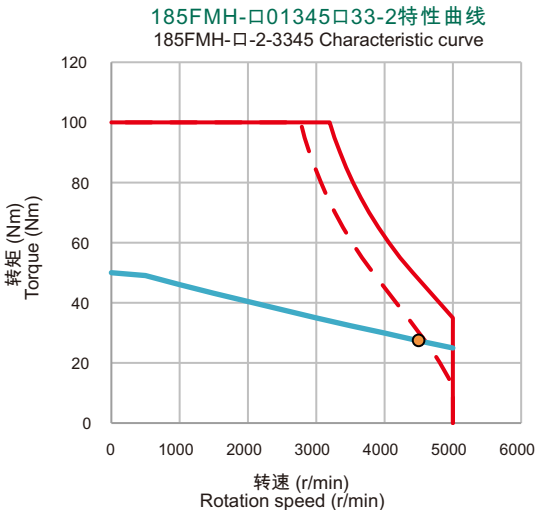
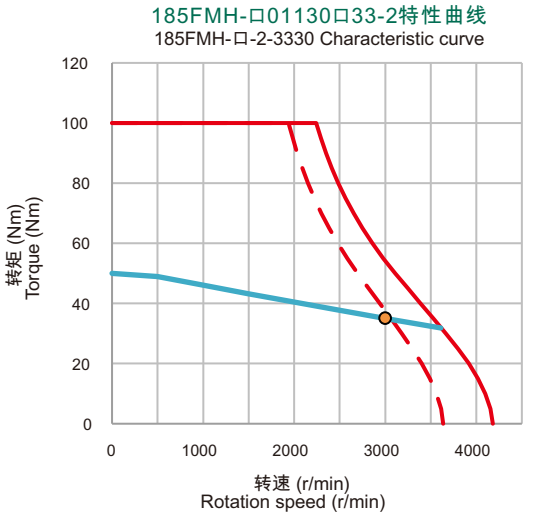
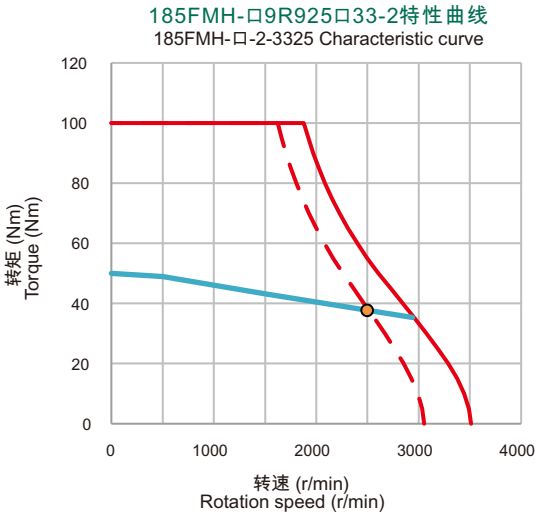
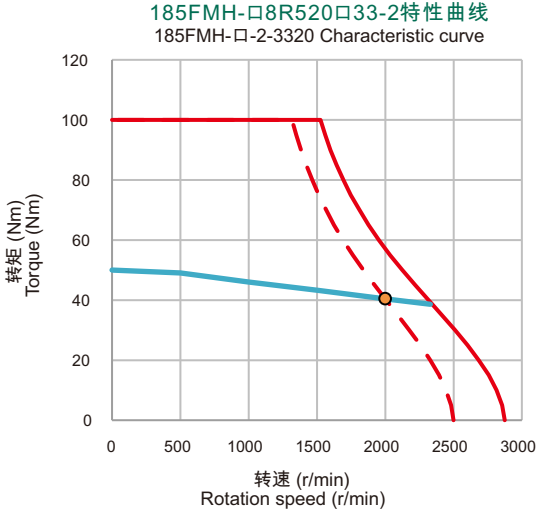
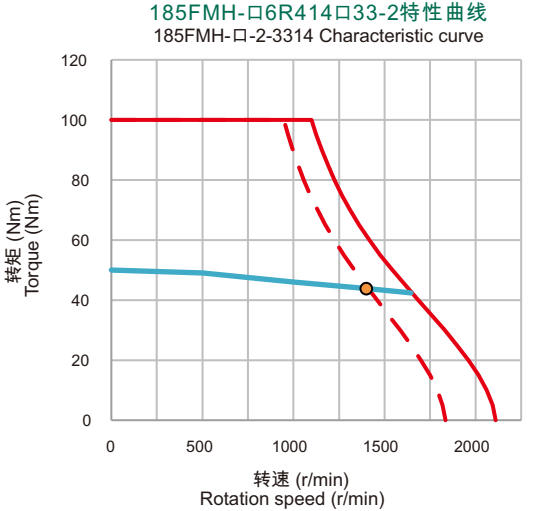
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
185MH-L-5	396.3	/
185MH-L-6	446.3	/



185FMH-□-2技术数据-380VAC

185FMH-□-2Technical data -380VAC

电机型号 Motor type			185FMH-□6 R414□33-2	185FMH-□8 R520□33-2	185FMH-□9R 925□33-2	185FMH-□0 1130□33-2	185FMH-□0 1345□33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	50.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	16.7	22.7	27.8	33.1	46.6
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	6.4	8.5	9.9	11.0	12.9
额定转速 Speed		n _N	r/min	1400	2000	2500	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	43.8	40.4	37.7	35.0	27.4
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	9.9	18.4	20.9	23.1	25.5
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	397	400	398	392	392
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	5000				
峰值扭矩 Peak torque		M _{max}	Nm	90.0				
峰值电流 Peak current		I _{max}	Arms	36	50	61	72	102
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	950	1300	1600	1900	2750
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.00	2.20	1.80	1.51	1.07
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	207	152	124	105	74
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.92	0.49	0.32	0.26	0.12
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	29.5	15.9	10.6	7.50	3.77
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	35.5 (L) / 94.8 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	41.8 (L) / 101 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	35.5 (L) / 39.3 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	41.6 (L) / 46.3 (M)				
制动器数据 Brake data								
制动器类型 Type				永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin (双电缆) (Dual cable)	M40 8-Pin 接线盒(双电缆) Junction box (Double cable)			
				M23 9-Pin (单电缆) (Single cable)	M40 11-Pin (单电缆) (Single cable)			
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-02033-E	VC***-02733-E	VC***-03233-E	VC***-03833-Ea	VC***-06033-EA



图例
KEY

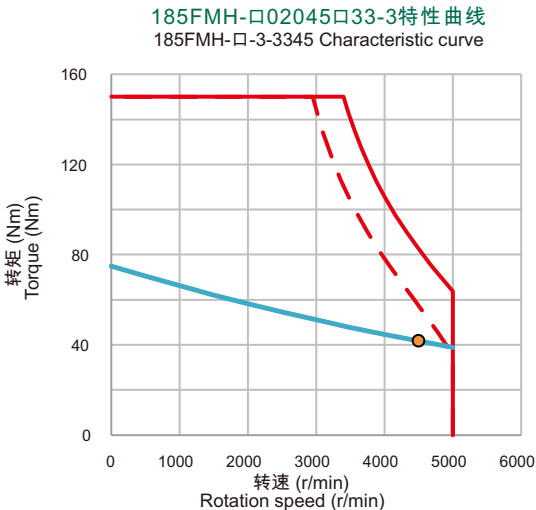
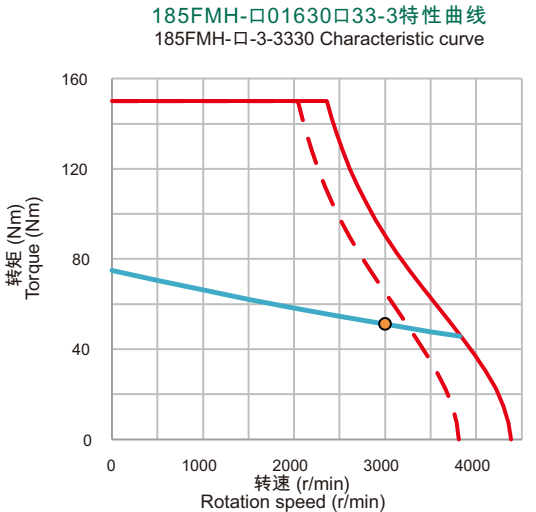
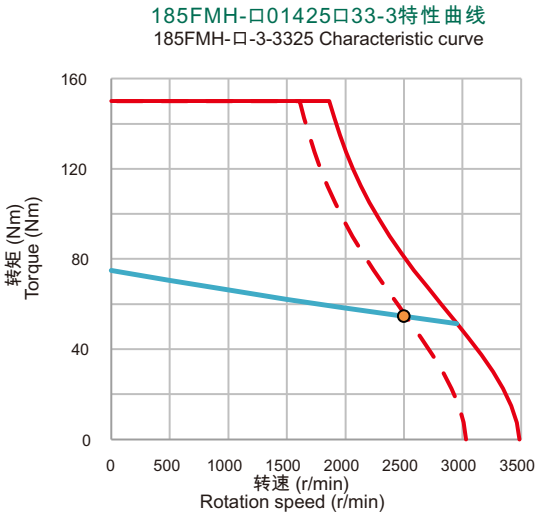
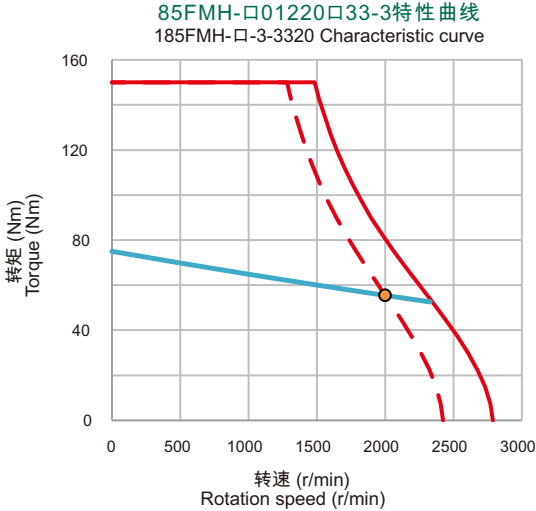
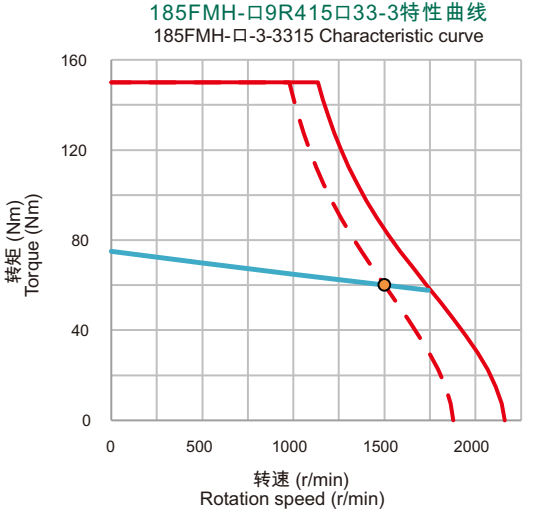
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185FMH-□-3技术数据-380VAC

185FMH-□-3Technical data -380VAC

电机型号 Motor type			185FMH-□9R 415□33-3	185FMH-□0 1220□33-3	185FMH-□0 1425□33-3	185FMH-□0 1630□33-3	185FMH-□0 2045□33-3	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	75.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	25.6	33.1	41.3	52.0	74.2
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	9.4	11.6	14.3	16.1	19.7
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	60.0	55.5	54.6	51.1	41.7
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	20.5	24.5	30.1	35.4	41.3
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	400	400	397	371	370
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	5000				
峰值扭矩 Peak torque		M _{max}	Nm	150				
峰值电流 Peak current		I _{max}	Arms	56	72	90	114	162
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	950	1250	1600	2000	2950
电机数据 Motor data								
极数 No. of poles		Poles	8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.93	2.27	1.81	1.44	1.01
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	202	157	125	100	70
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.53	0.31	0.22	0.14	0.063
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	18.7	11.3	7.20	4.56	2.23
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	51.8 (L) / 175 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	58.1 (L) / 182 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	44.2 (L) / 51.8 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	49.0 (L) / 58.8 (M)				
制动器数据 Brake data								
制动器类型 Type		永磁式 Permanent magnet type						
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector					M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)		接线盒(双电缆) Junction box (Double cable)	
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)						
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-02733-E	VC***-04533-Ea	VC***-06033-EA	VC***-07533-EA	



图例
KEY

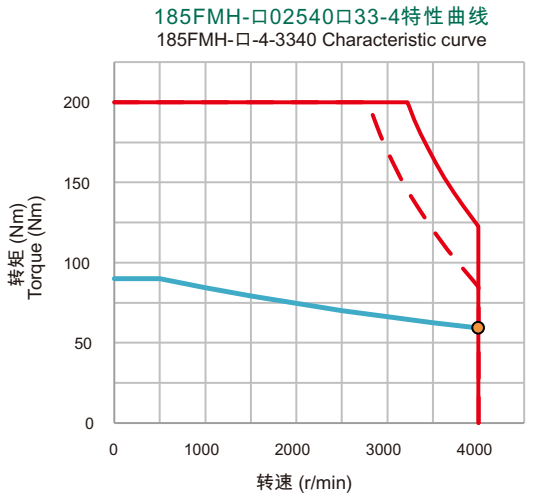
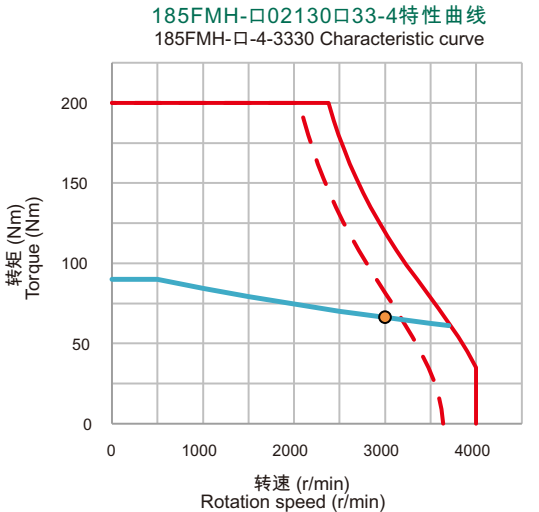
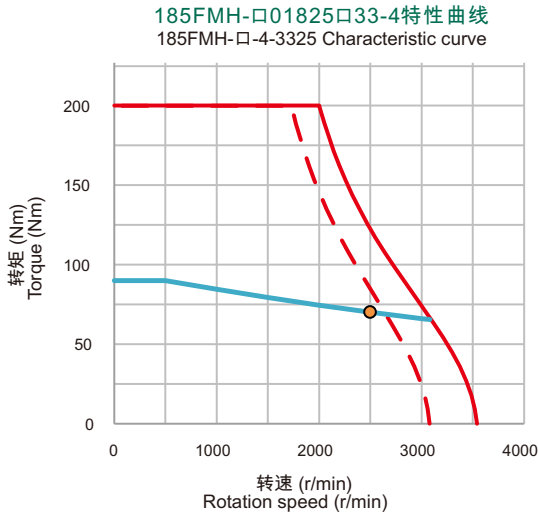
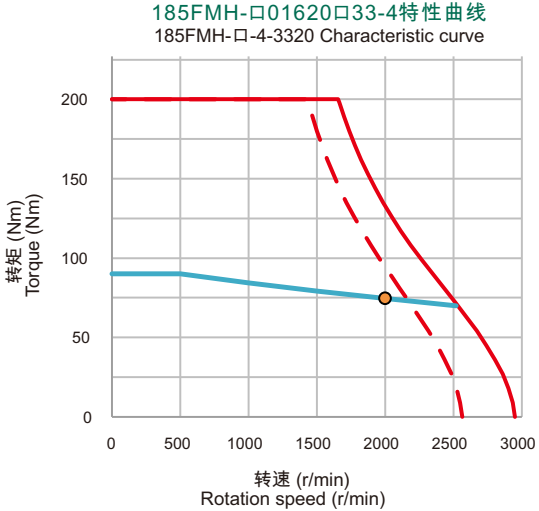
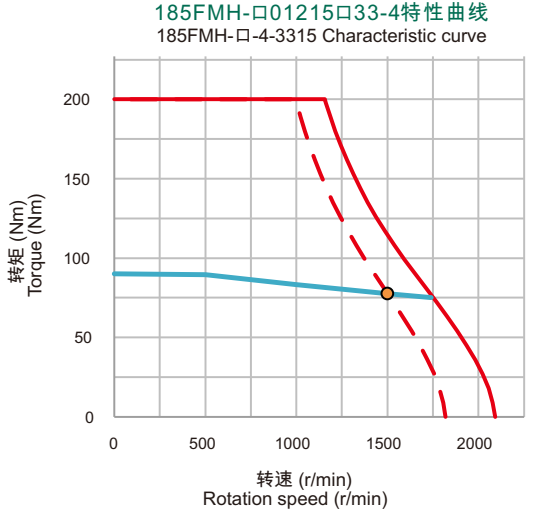
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185FMH-□-4技术数据-380VAC

185FMH-□-4Technical data -380VAC

电机型号 Motor type			185FMH-□0 1215□33-4	185FMH-□0 1620□33-4	185FMH-□0 1825□33-4	185FMH-□0 2130□33-4	185FMH-□0 2540□33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	90.0				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	29.8	42.0	50.4	59.5	79.9
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	12.2	15.6	18.4	20.8	24.8
额定转速 Speed		n _N	r/min	1500	2000	2500	3000	4000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	77.7	74.6	70.2	66.2	59.3
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	25.7	34.8	39.3	43.8	52.6
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	400	371	379	379	366
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	4000				
峰值扭矩 Peak torque		M _{max}	Nm	200				
峰值电流 Peak current		I _{max}	Arms	72	102	122	145	194
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1000	1400	1700	2050	2750
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.02	2.14	1.79	1.51	1.13
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	209	148	123	104	78
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.44	0.23	0.17	0.12	0.067
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	13.7	6.90	4.79	3.43	1.91
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	68.1 (L) / 235 (M)				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	74.4 (L) / 241 (M)				
电机重量 (无制动器) Weight(No brake)		m	kg	54.3 (L) / 62.6 (M)				
电机重量 (带制动器) Weight(With brake)		m _b	kg	56.4 (L) / 69.6 (M)				
制动器数据 Brake data								
制动器类型 Type				永磁式 Permanent magnet type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	0				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	60.0				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.1 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	50 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)			接线盒(双电缆) Junction box (Double cable)	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-03233-E	VC***-04533-Ea	VC***-06033-EA	VC***-09033-EA	



图例
KEY

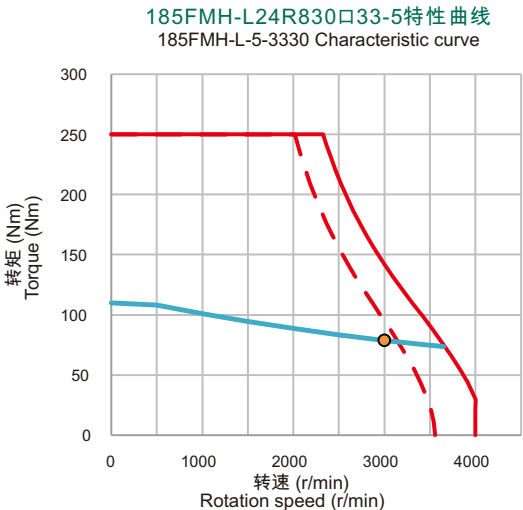
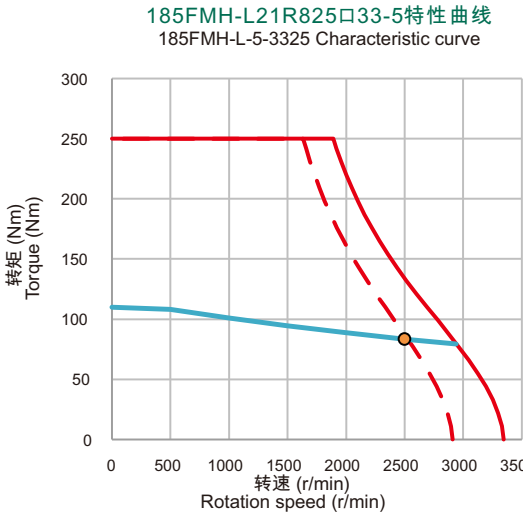
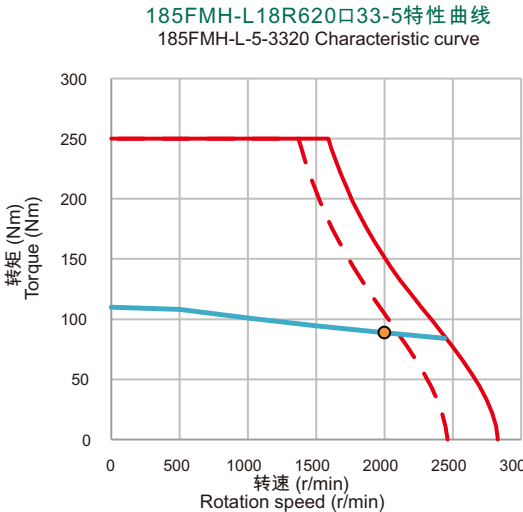
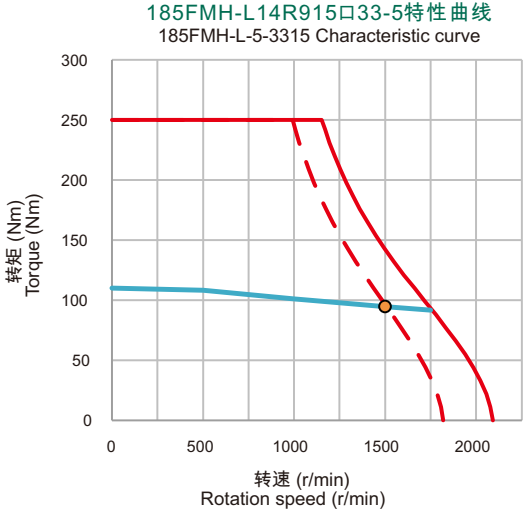
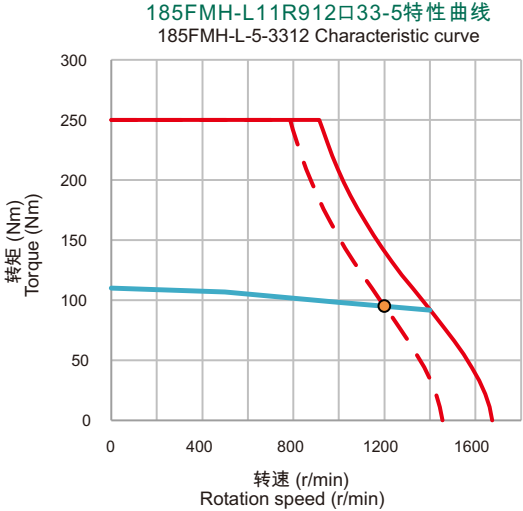
--- M_{max} @ 400VAC
—— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

185FMH-L-5技术数据-380VAC

185FMH-L-5 Technical data -380VAC

电机型号 Motor type			185FMH-L0 1212口 33-5	185FMH-L0 1515口 33-5	185FMH-L0 1920口 33-5	185FMH-L0 2225口 33-5	185FMH-L0 2530口 33-5	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	110				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	29.1	36.4	49.2	58.2	71.1
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	11.9	14.9	18.6	21.8	24.8
额定转速 Speed		n _N	r/min	1200	1500	2000	2500	3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	95.0	94.6	88.7	83.4	78.8
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	25.1	31.3	39.7	44.1	51.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	400	398	382	396	383
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	4000				
峰值扭矩 Peak torque		M _{max}	Nm	250				
峰值电流 Peak current		I _{max}	Arms	72	90	122	145	177
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	750	1000	1350	1600	2000
电机数据 Motor data								
极数 No. of poles		Poles	8					
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.78	3.02	2.23	1.89	1.55
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	261	209	154	131	107
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.52	0.37	0.20	0.15	0.095
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	17.2	11.0	5.99	4.29	2.87
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	87.5				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	---				
电机重量 (无制动器) Weight(No brake)		m	kg	65.1				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---				
制动器数据 Brake data								
制动器类型 Type			---					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---				
制动器额定电压 Brake rated voltage		U _{br}	V DC	---				
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	---				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---				
连接器类型 Connector Type								
动力连接器类型 Power connector			M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)			接线盒(双电缆) Junction box (Double cable)		
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver			VC***-03233-E	VC***-04533-Ea	VC***-06033-EA		VC***-07533-EA	



图例
KEY

--- M_{max} @ 400VAC
--- M_{max} @ 460VAC

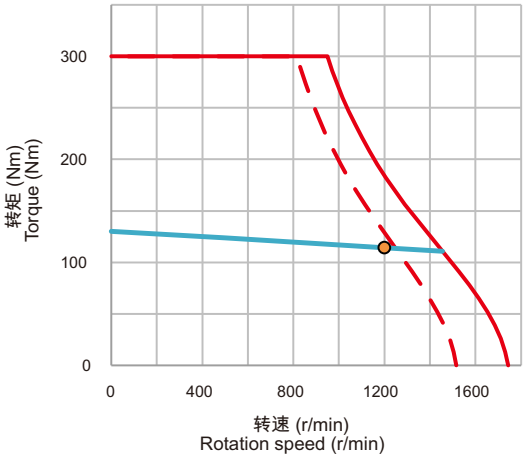
--- S₁ @ 100K
● P_N - 100K

185FMH-L-6技术数据-380VAC

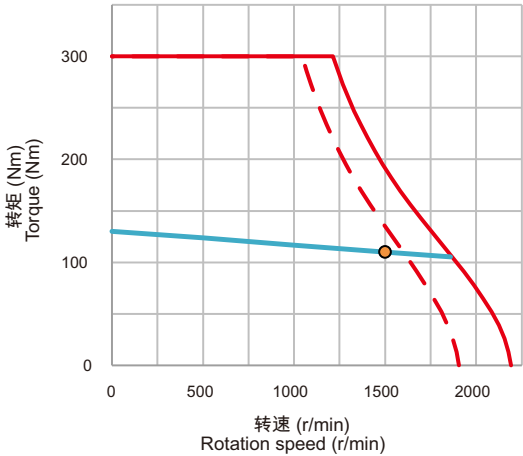
185FMH-L-6 Technical data -380VAC

电机型号 Motor type			185FMH-L0 1412 □ 33-6	185FMH-L0 1715 □ 33-6	185FMH-L0 2220 □ 33-6	185FMH-L0 2625 □ 33-6	185FMH-L0 2930 □ 33-6
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	130			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	35.8	45.0	57.3	70.1 83.0
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	14.3	17.3	21.8	25.7 29.2
额定转速 Speed		n _N	r/min	1200	1500	2000	2500 3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	114	110	104	98.1 92.9
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	31.4	38.1	45.9	52.9 59.3
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	385	376	385	387 386
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	4000			
峰值扭矩 Peak torque		M _{max}	Nm	300			
峰值电流 Peak current		I _{max}	Arms	90	114	145	177 209
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	800	1050	1350	1650 2000
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.63	2.89	2.27	1.86 1.57
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	251	199	157	128 108
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.43	0.27	0.17	0.11 0.077
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	13.2	8.34	5.15	3.45 2.46
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	104			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	---			
电机重量 (无制动器) Weight(No brake)		m	kg	75.0			
电机重量 (带制动器) Weight(With brake)		m _b	kg	---			
制动器数据 Brake data							
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---			
制动器额定电压 Brake rated voltage		U _{br}	V DC	---			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	---			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---			
连接器类型 Connector Type							
动力连接器类型 Power connector		M40 8-Pin 接线盒(双电缆) Junction box (Double cable) M40 11-Pin (单电缆) (Single cable)			接线盒(双电缆) Junction box (Double cable)		
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA	VC***-07533-EA VC***-09033-EA

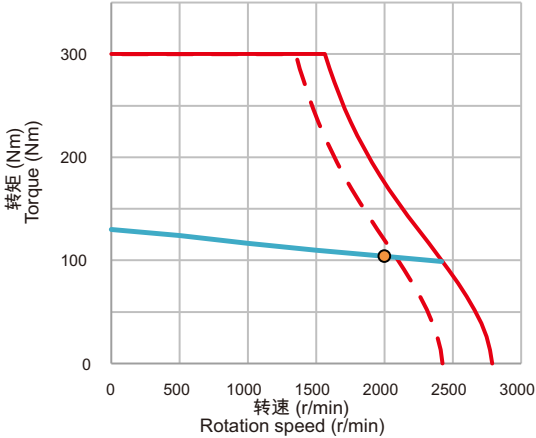
185FMH-L01412口33-6特性曲线
185FMH-L-6-3312 Characteristic curve



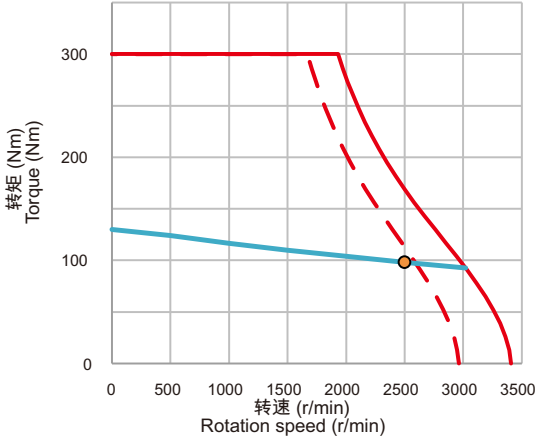
185FMH-L01715口33-6特性曲线
185FMH-L-6-3315 Characteristic curve



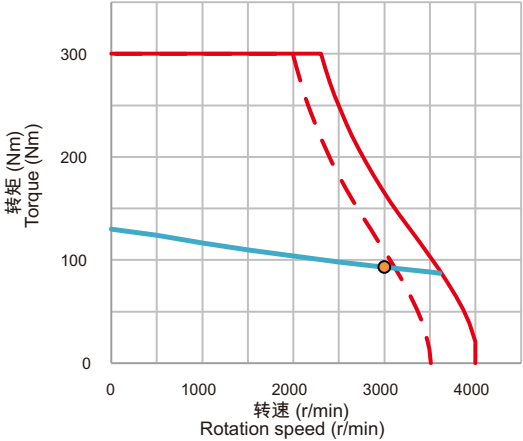
185FMH-L02220口33-6特性曲线
185FMH-L-6-3320 Characteristic curve



185FMH-L02625口33-6特性曲线
185FMH-L-6-3325 Characteristic curve



185FMH-L02930口33-6特性曲线
185FMH-L-6-3330 Characteristic curve



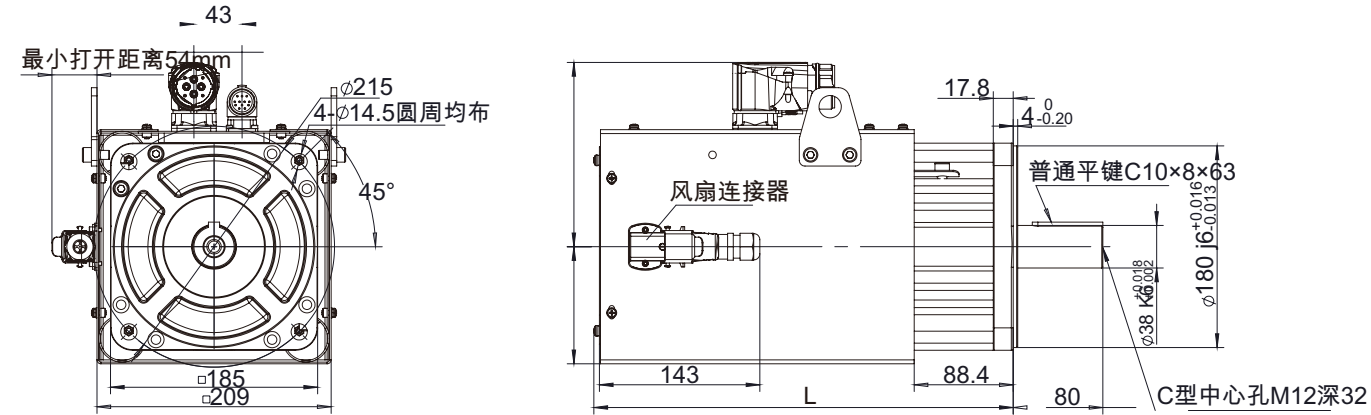
图例
KEY

--- M_{max} @ 400VAC
— M_{max} @ 460VAC

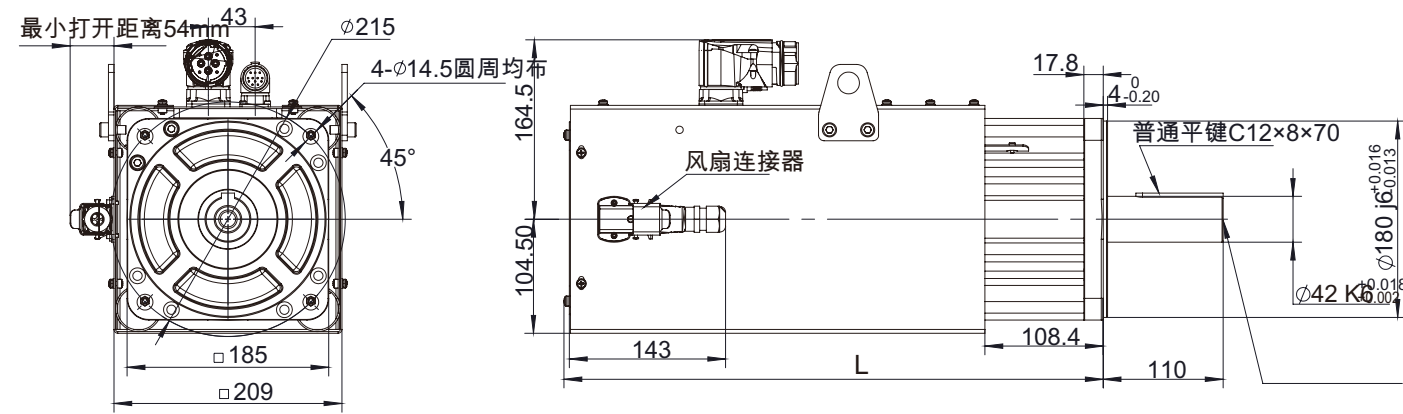
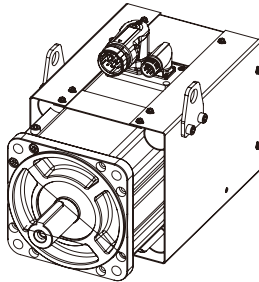
--- S₁ @ 100K
● P_N - 100K

185FMH-口-口机械尺寸

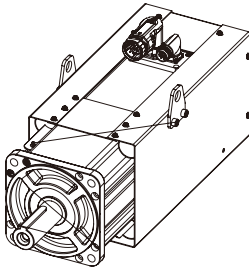
185FMH-口-口Mechanical dimensions



电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
185FMH-L-1	275	360.3
185FMH-L-2	325	410.3
185FMH-L-3	375	460.3
185FMH-L-4	425	510.3
185FMH-M-1	288	373.3
185FMH-M-2	338	423.3
185FMH-M-3	397	482.3
185FMH-M-4	454	539.3



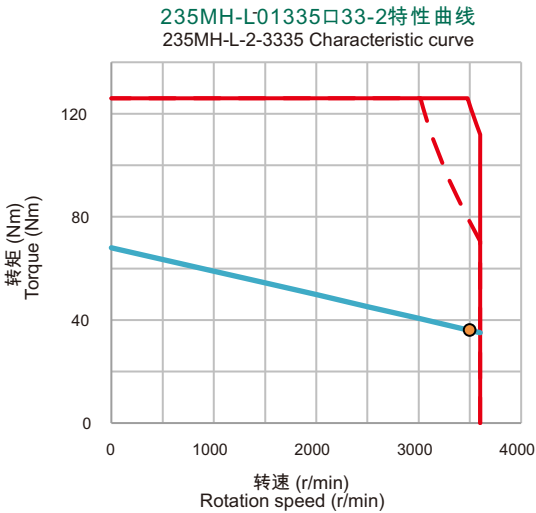
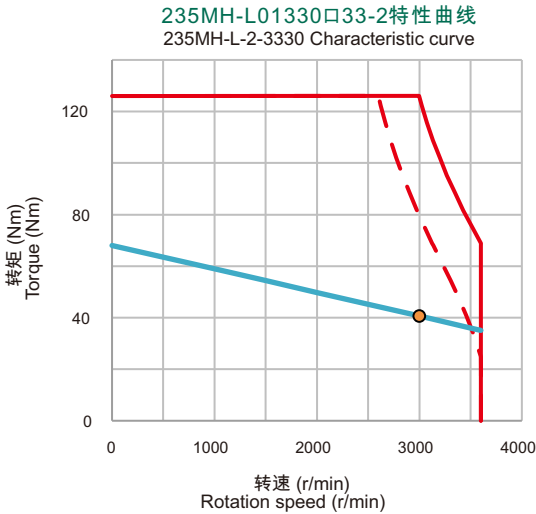
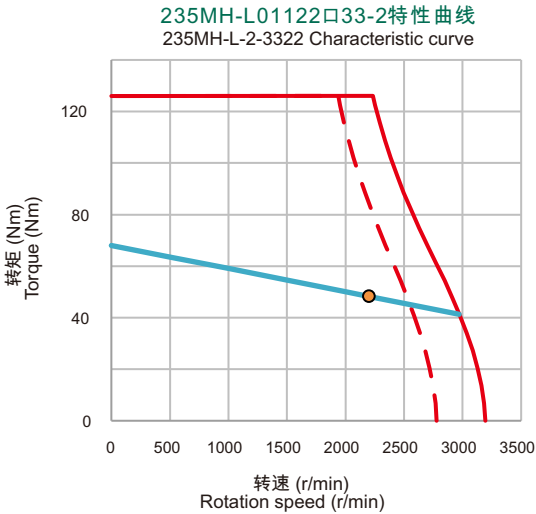
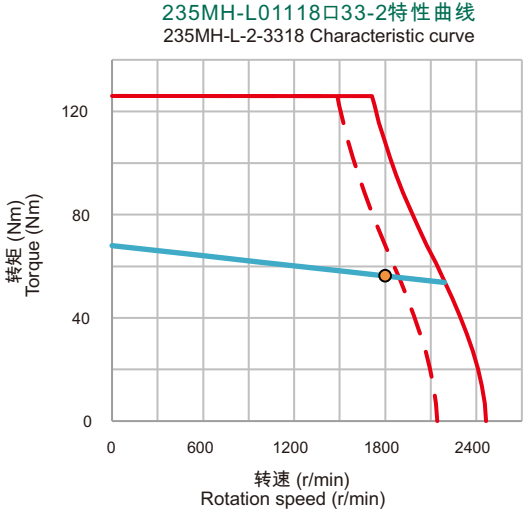
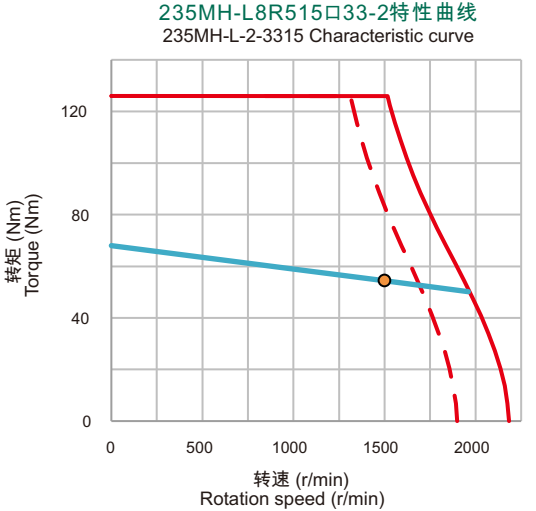
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
185FMH-L-5	495	/
185FMH-L-6	545	/



235MH-L-2技术数据-380VAC

235MH-L-2 Technical data -380VAC

电机型号 Motor type			235MH-L8R 515口33-2	235MH-L0 1118口33-2	235MH-L0 1122口33-2	235MH-L0 1330口33-2	235MH-L0 1335口33-2	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	68.0				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	23.5	26.5	34.4	45.9	53.1
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	8.5	10.6	11.1	12.8	13.2
额定转速 Speed		n _N	r/min	1500	1800	2200	3000	3500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	54.4	56.3	48.3	40.6	36.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	18.8	22.0	24.4	27.4	28.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	358	382	349	347	345
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	3600				
峰值转矩 Peak torque		M _{max}	Nm	126				
峰值电流 Peak current		I _{max}	Arms	48	54	70	93	107
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1300	1450	1900	2600	3000
电机数据 Motor data								
极数 No. of poles		Poles		8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.89	2.56	1.98	1.48	1.28
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	200	177	137	103	89
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.29	0.24	0.15	0.081	0.060
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	14.2	11.1	6.62	3.72	2.78
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	101				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	116				
电机重量 (无制动器) Weight(No brake)		m	kg	42				
电机重量 (带制动器) Weight(With brake)		m _b	kg	57				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	125				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.3 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	55 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M23 8-Pin	M40 8-Pin			
反馈连接器类型 Feedback connector				M23 12-Pin				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-02733-E	VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA	



图例
KEY

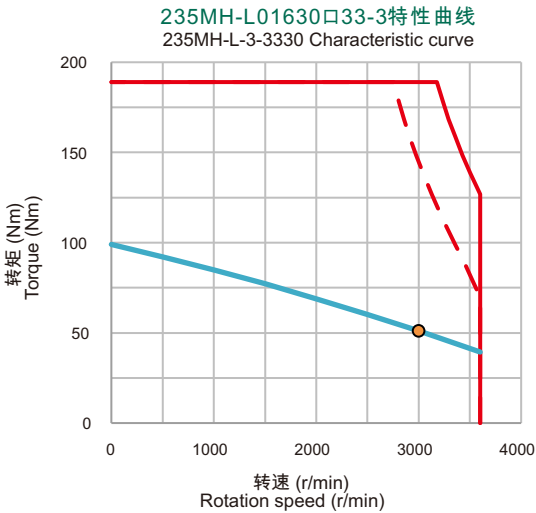
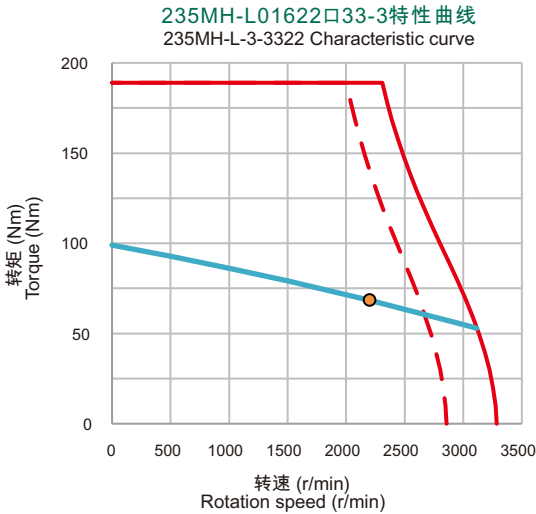
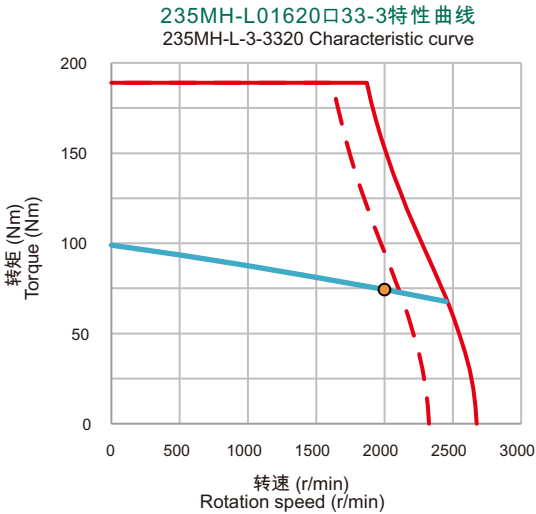
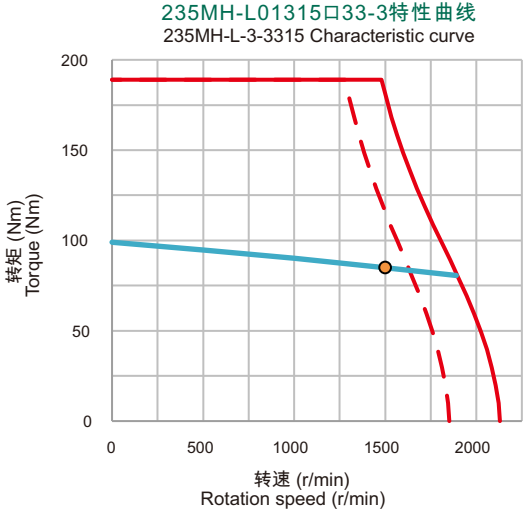
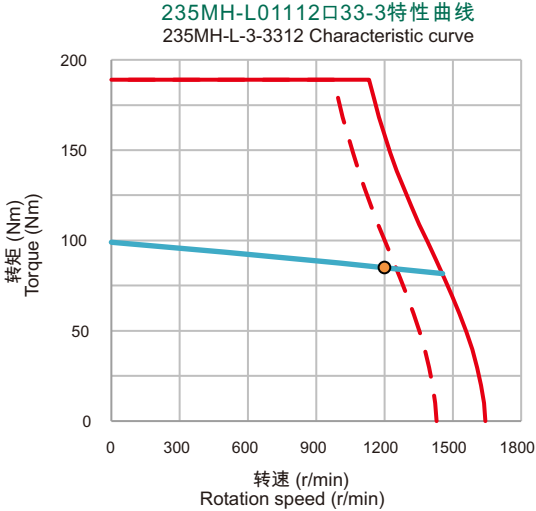
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235MH-L-3技术数据-380VAC

235MH-L-3 Technical data -380VAC

电机型号 Motor type			235MH-L0 1112口33-3	235MH-L0 1315口33-3	235MH-L0 1620口33-3	235MH-L0 1622口33-3	235MH-L01 630口33-3
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage	U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)	M _{D-100K}	Nm	99.0				
堵转电流 (100K) Locked rotor current (100K)	I _{D-100K}	Arms	25.7	33.3	41.8	51.3	70.4
堵转转矩 (60K) locked torque (60K)	M _{D-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)	I _{D-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)	P _{N-100K}	kW	10.7	13.4	15.6	15.8	16.0
额定转速 Speed	n _N	r/min	1200	1500	2000	2200	3000
额定转矩 (100K) Torque (100K)	M _{N-100K}	Nm	85.0	85.0	74.4	68.4	51.0
额定电流 (100K) Current (100K)	I _{N-100K}	Arms	22.0	28.6	31.4	35.5	36.3
额定电压 (100K) Voltage (100K)	U _{N-100K}	V AC	384	369	380	336	322
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)	P _{N-60K}	kW					
额定转速 Speed	n _N	r/min					
额定转矩 (60K) Torque (60K)	M _{N-60K}	Nm					
额定电流 (60K) Current (60K)	I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)	U _{N-60K}	V AC					
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)	n _{machmax}	r/min	3600				
峰值转矩 Peak torque	M _{max}	Nm	189				
峰值电流 Peak current	I _{max}	Arms	54	70	87	107	147
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)	n _{nee}	r/min	950	1250	1600	2000	2750
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)	K _{T-100K}	Nm/A	3.86	2.98	2.37	1.93	1.41
电压常数 (20°C) Voltage constant (20°C)	K _E	V/1krp	266	205	163	133	97
绕组电阻 (20°C) Winding resistance (20°C)	R _{L-L}	Ω	0.32	0.19	0.12	0.079	0.046
绕组电感 (20°C) Winding inductance (20°C)	L _{L-L}	mH	16.7	9.93	6.29	4.17	2.21
转动惯量 (无制动器) Rotary inertia(No brake)	J	10 ⁻⁴ kgm ²	149				
转动惯量 (带制动器) Rotary inertia(with brake)	J _b	10 ⁻⁴ kgm ²	164				
电机重量 (无制动器) Weight(No brake)	m	kg	57				
电机重量 (带制动器) Weight(With brake)	m _b	kg	72				
制动器数据 Brake data							
制动器类型 Type			机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance	B _{br}	arcmin	30				
制动器静态转矩 (20°C) Static torque(20°C)	M _{br}	Nm	125				
制动器额定电压 Brake rated voltage	U _{br}	V DC	24 ± 10%				
制动器额定电流 (20°C) Brake rated current(20)	I _{br}	A	2.3 ± 7%				
制动器额定功率 (20°C) Brake rated power(20°C)	P _{br}	W	55 ± 7%				
连接器类型 Connector Type							
动力连接器类型 Power connector			M40 8-Pin / 接线盒 Junction box				M58 / 接线盒 Junction box
反馈连接器类型 Feedback connector			M23 12-Pin				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***-02733-E	VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA	VC***-07533-EA



图例
KEY

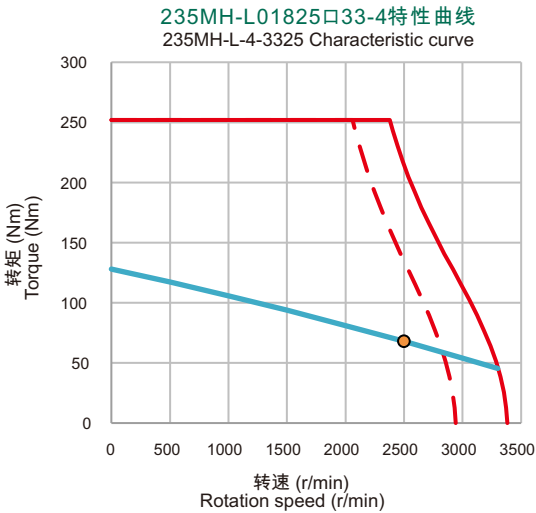
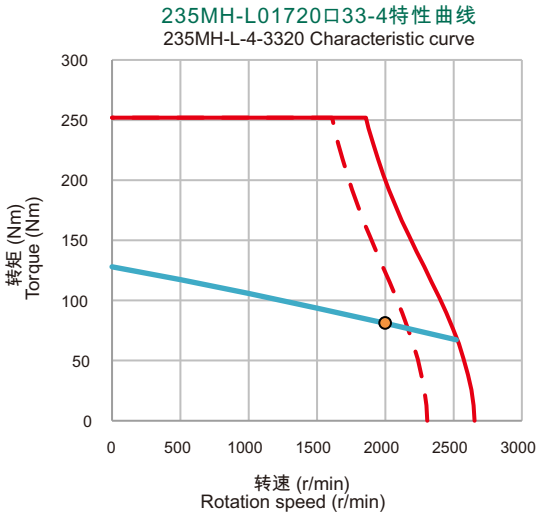
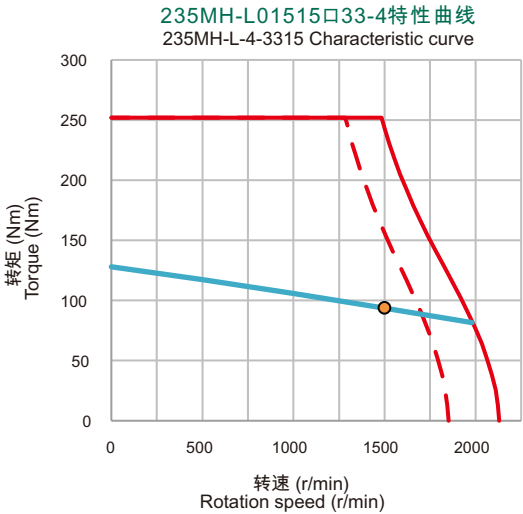
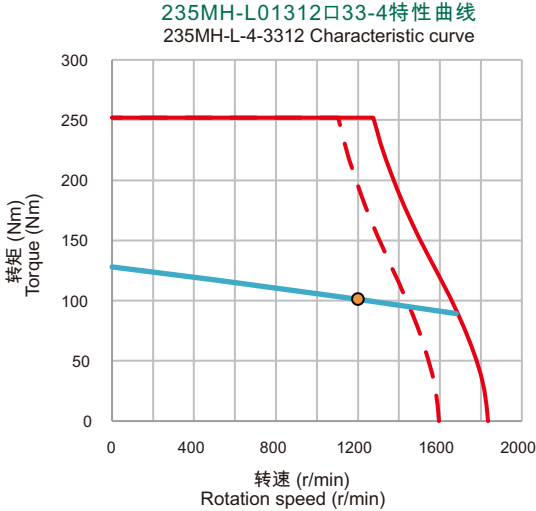
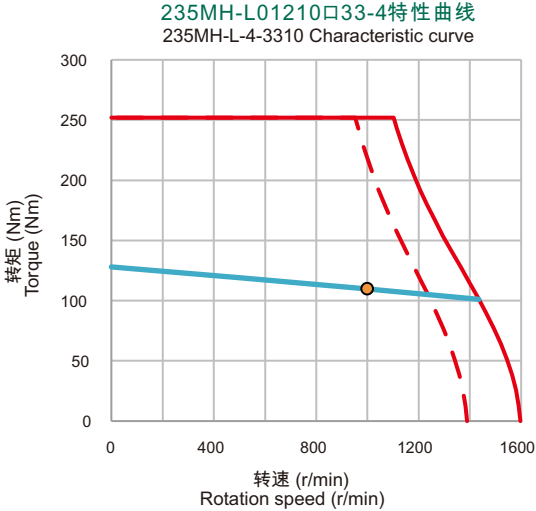
--- M_{max} @ 400VAC
—— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235MH-L-4技术数据-380VAC

235MH-L-4 Technical data -380VAC

电机型号 Motor type			235MH-L0 1210□33-4	235MH-L0 1312□33-4	235MH-L0 1515□33-4	235MH-L01 720□33-4	235MH-L0 1825□33-4	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	128				
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	32.1	36.9	42.9	53.4	68.1
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	11.5	12.7	14.7	17.0	17.8
额定转速 Speed		n _N	r/min	1000	1200	1500	2000	2500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	110	101	93.8	81.1	67.9
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	27.6	29.1	31.4	33.8	36.1
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	328	335	356	372	358
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	3600				
峰值转矩 Peak torque		M _{max}	Nm	252				
峰值电流 Peak current		I _{max}	Arms	70	80	93	116	147
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	950	1100	1250	1600	2050
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.98	3.47	2.99	2.40	1.88
电压常数 (20℃) Voltage constant (20℃)		K _E	V/1krp	274	238	205	165	129
绕组电阻 (20℃) Winding resistance (20℃)		R _{L-L}	Ω	0.24	0.17	0.13	0.085	0.056
绕组电感 (20℃) Winding inductance (20℃)		L _{L-L}	mH	13.2	10.0	7.44	4.79	2.95
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	196				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	211				
电机重量 (无制动器) Weight(No brake)		m	kg	73				
电机重量 (带制动器) Weight(With brake)		m _b	kg	88				
制动器数据 Brake data								
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30				
制动器静态转矩 (20℃) Static torque(20℃)		M _{br}	Nm	125				
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%				
制动器额定电流 (20℃) Brake rated current(20)		I _{br}	A	2.3 ± 7%				
制动器额定功率 (20℃) Brake rated power(20℃)		P _{br}	W	55 ± 7%				
连接器类型 Connector Type								
动力连接器类型 Power connector				M40 8-Pin / 接线盒 Junction box				M58 / 接线盒 Junction box
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA	VC***-07533-EA	



图例
KEY

--- M_{max} @ 400VAC

— M_{max} @ 460VAC

--- S₁ @ 100K

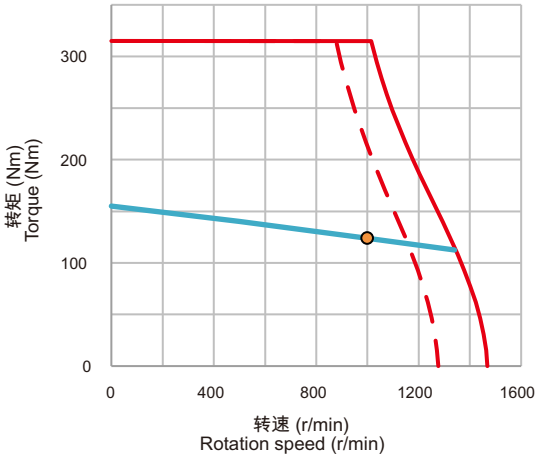
● P_N - 100K

235MH-L-5技术数据-380VAC

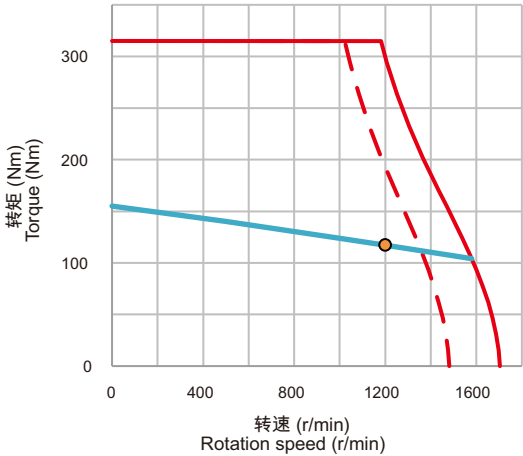
235MH-L-5 Technical data -380VAC

电机型号 Motor type			235MH-L01 310 口 33-5	235MH-L0 1512 口 33-5	235MH-L0 1715 口 33-5	235MH-L0 1920 口 33-5	235MH-L0 1825 口 33-5	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value			
选型数据 Selection Data								
工作电压 Operating Voltage		U	V AC	380 ... 480				
堵转转矩 (100K) locked torque (100K)		M _{D-100K}	Nm	155				
堵转电流 (100K) Locked rotor current (100K)		I _{D-100K}	Arms	35.8	41.5	51.7	65.9	84.1
堵转转矩 (60K) locked torque (60K)		M _{D-60K}	Nm					
堵转电流 (60K) Locked rotor current (60K)		I _{D-60K}	Arms					
额定工作点 (100K) Rated operating point (100K)								
额定功率 (100K) Power (100K)		P _{N-100K}	kW	13.0	14.7	16.8	18.6	18.2
额定转速 Speed		n _N	r/min	1000	1200	1500	2000	2500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	124	117	107	88.8	69.7
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	28.6	31.3	35.7	37.8	37.8
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	349	357	352	360	345
额定工作点 (60K) Rated operating point (60K)								
额定功率 (60K) Power (60K)		P _{N-60K}	kW					
额定转速 Speed		n _N	r/min					
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm					
额定电流 (60K) Current (60K)		I _{N-60K}	Arms					
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC					
极限数据 Limit data								
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{machmax}	r/min	3600				
峰值转矩 Peak torque		M _{max}	Nm	315				
峰值电流 Peak current		I _{max}	Arms	80	93	116	147	188
峰值扭矩转折点 380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	850	1000	1250	1600	2100
电机数据 Motor data								
极数 No. of poles			Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	4.33	3.73	3.00	2.35	1.84
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	298	257	206	162	127
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.20	0.16	0.10	0.067	0.042
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	12.5	9.31	5.99	3.69	2.27
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	254				
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	---				
电机重量 (无制动器) Weight(No brake)		m	kg	89				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---				
制动器数据 Brake data								
制动器类型 Type				---				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---				
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---				
制动器额定电压 Brake rated voltage		U _{br}	V DC	---				
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	---				
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---				
连接器类型 Connector Type								
动力连接器类型 Power connector				M40 8-Pin / 接线盒 Junction box			M58 / 接线盒 Junction box	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver								
适配驱动器 Matcheddriver				VC***-03833-Ea	VC***-04533-Ea	VC***-06033-EA	VC***-07533-EA	VC***-09033-EA

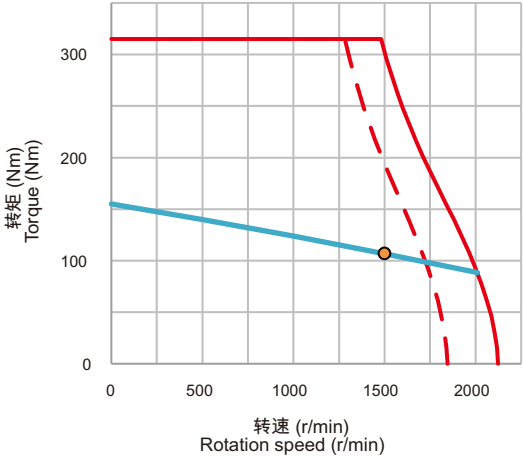
235MH-L01310口33-5特性曲线
235MH-L-5-3310 Characteristic curve



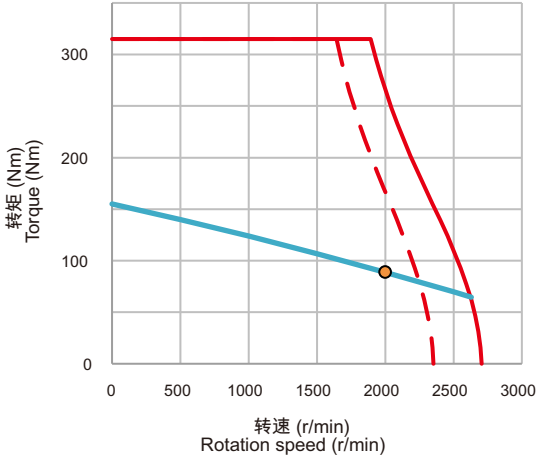
235MH-L01512口33-5特性曲线
235MH-L-5-3312 Characteristic curve



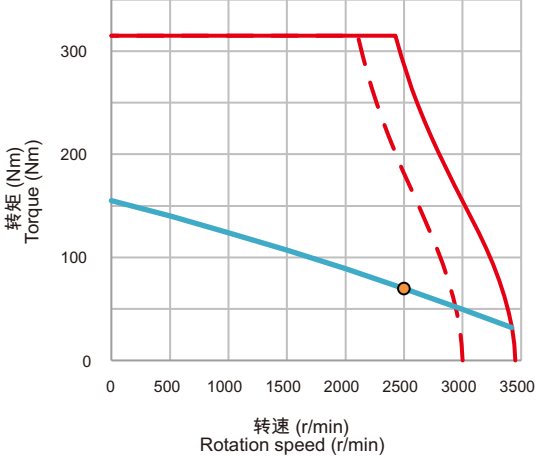
235MH-L01715口33-5特性曲线
235MH-L-5-3315 Characteristic curve



235MH-L01920口33-5特性曲线
235MH-L-5-3320 Characteristic curve



235MH-L01825口33-5特性曲线
235MH-L-5-3325 Characteristic curve



图例
KEY

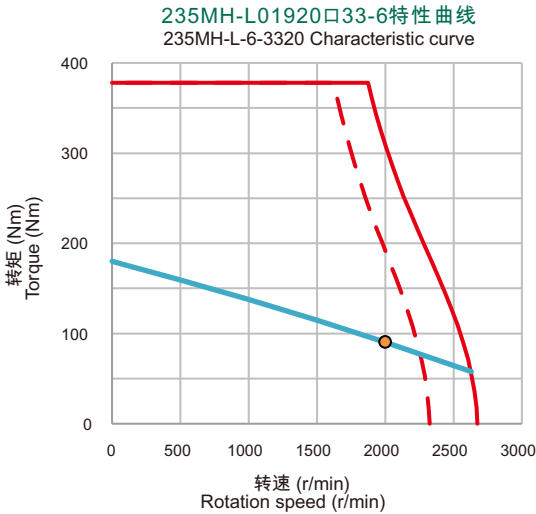
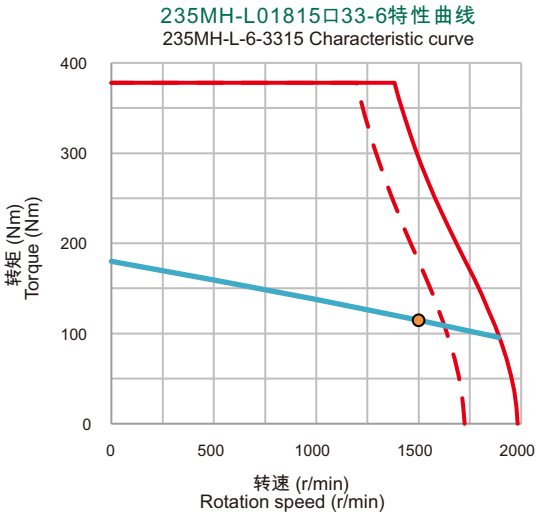
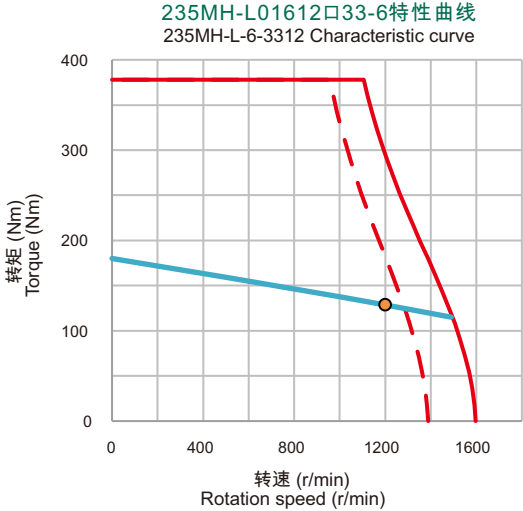
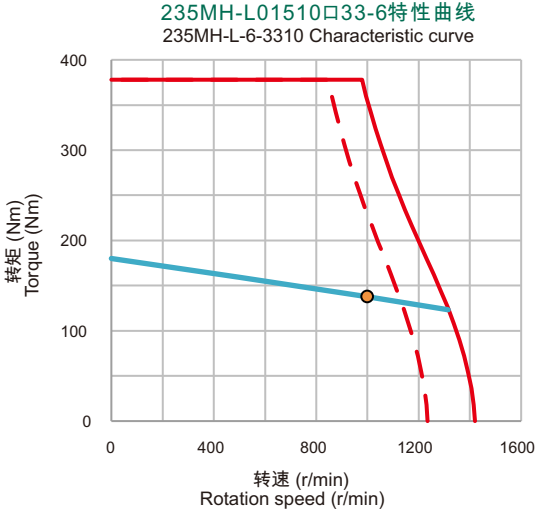
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235MH-L-6技术数据-380VAC

235MH-L-6 Technical data -380VAC

电机型号 Motor type			235MH-L0 1510□33-6	235MH-L0 1612□33-6	235MH-L0 1815□33-6	235MH-L0 1920□33-6	
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	180			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	40.2	45.2	56.1	75.7
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	14.5	16.2	18.1	18.9
额定转速 Speed		n _N	r/min	1000	1200	1500	2000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	138	129	115	90.3
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	30.8	32.4	35.9	38.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	357	369	372	359
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值扭矩 Peak torque		M _{max}	Nm	378			
峰值电流 Peak current		I _{max}	Arms	93	104	130	175
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	850	950	1200	1600
电机数据 Motor data							
极数 No. of poles			Poles	8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	4.48	3.98	3.21	2.38
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	308	274	220	163
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.18	0.15	0.093	0.053
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	11.2	8.82	5.73	3.15
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	311			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	---			
电机重量 (无制动器) Weight(No brake)		m	kg	105			
电机重量 (带制动器) Weight(With brake)		m _b	kg	---			
制动器数据 Brake data							
制动器类型 Type				机械弹簧加压式 Mechanical spring pressure type			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---			
制动器额定电压 Brake rated voltage		U _{br}	V DC	---			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	---			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---			
连接器类型 Connector Type							
动力连接器类型 Power connector				M40 8-Pin / 接线盒 Junction box		M58 / 接线盒 Junction box	
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-04533-Ea		VC***-06033-EA	VC***-09033-EA

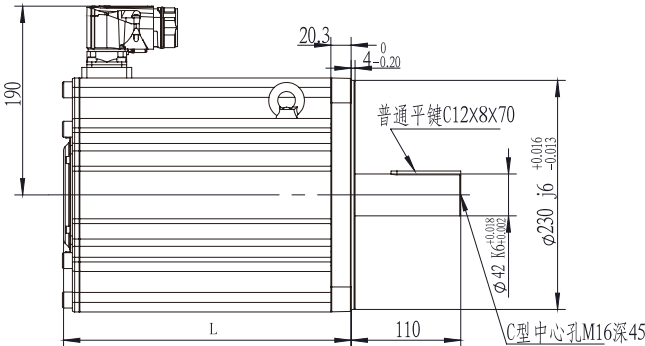
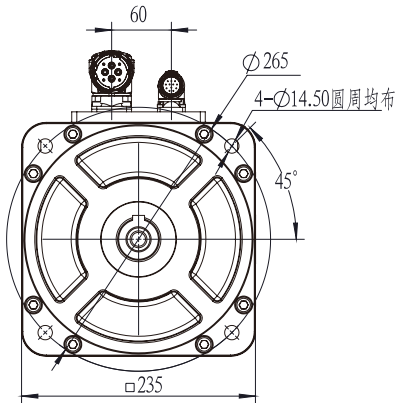


图例
KEY

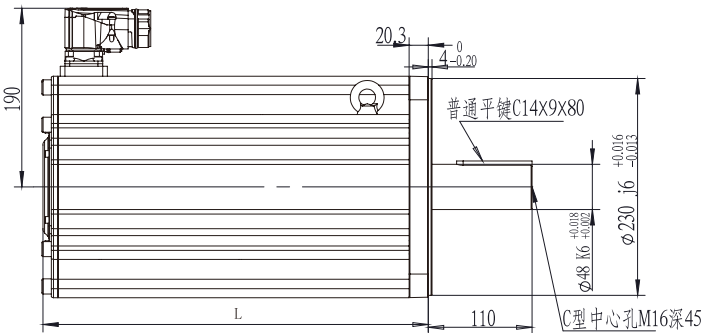
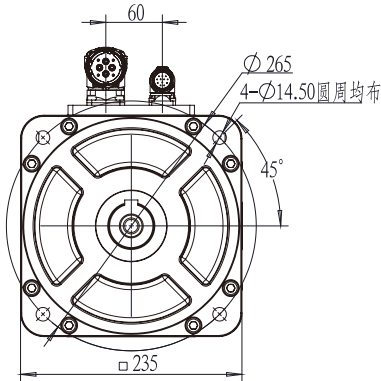
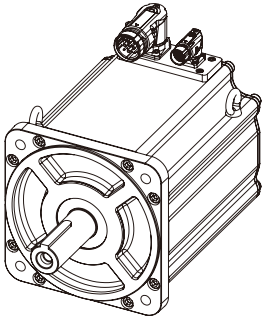
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

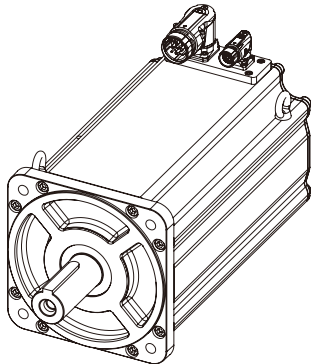
235MH-L-口机械尺寸
235MH-L-口Mechanical dimensions



电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
235MH-L-2	238.7	348.7
235MH-L-3	288.7	398.7
235MH-L-4	338.7	448.7



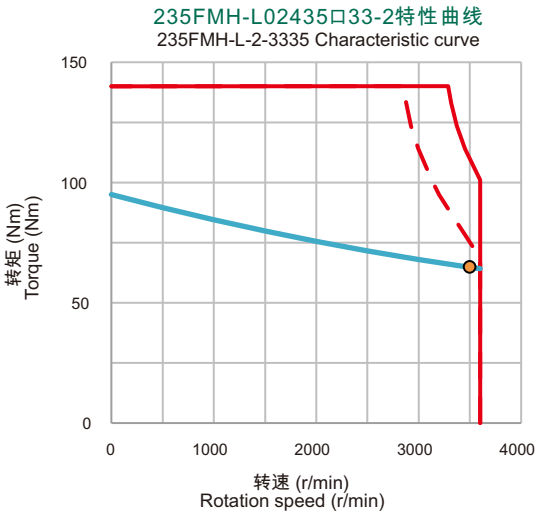
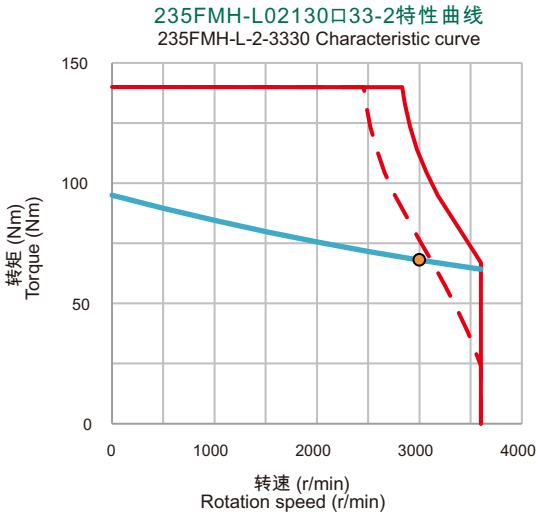
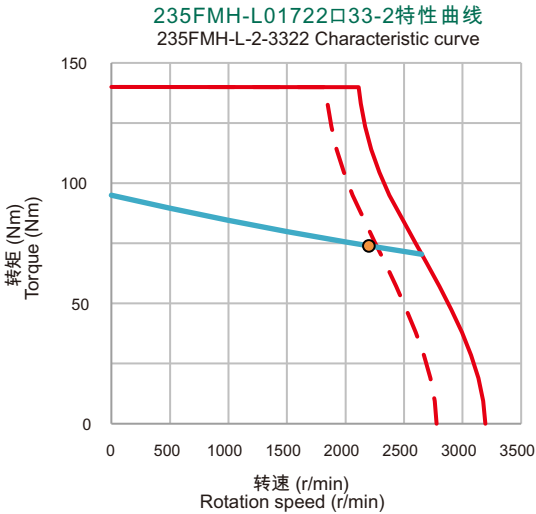
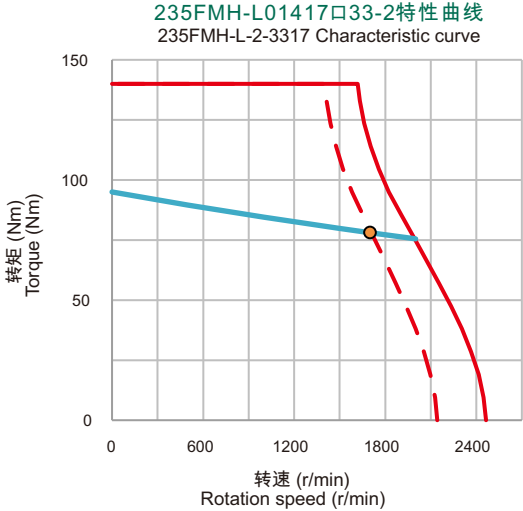
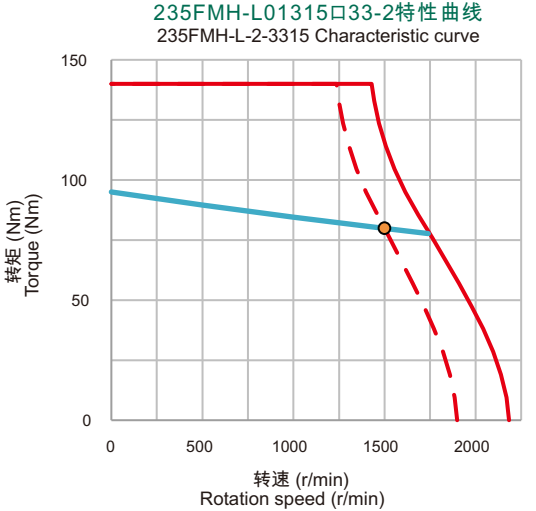
电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
235MH-L-5	408.7	/
235MH-L-6	458.7	/



235FMH-L-2技术数据-380VAC

235FMH-L-2 Technical data -380VAC

电机型号 Motor type			235FMH-L0 1315 □ 33-2	235FMH-L0 1417 □ 33-2	235FMH-L01 722 □ 33-2	235FMH-L0 2130 □ 33-2	235FMH-L0 2435 □ 33-2
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	95.0			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	33.8	38.5	49.4	65.9 76.2
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	12.5	13.9	17.0	21.4 23.8
额定转速 Speed		n _N	r/min	1500	1700	2200	3000 3500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	79.8	78.0	73.9	68.0 64.8
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	28.4	31.6	38.4	47.1 52.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	400	398	389	386 383
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值扭矩 Peak torque		M _{max}	Nm	140			
峰值电流 Peak current		I _{max}	Arms	56	64	82	110 127
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1200	1400	1800	2450 2850
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	2.81	2.47	1.92	1.44 1.25
电压常数 (20℃) Voltage constant (20℃)		K _E	V/1krp	200	177	137	103 89
绕组电阻 (20℃) Winding resistance (20℃)		R _{L-L}	Ω	0.29	0.24	0.15	0.081 0.060
绕组电感 (20℃) Winding inductance (20℃)		L _{L-L}	mH	14.2	11.1	6.62	3.72 2.78
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	101			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	116			
电机重量 (无制动器) Weight(No brake)		m	kg				
电机重量 (带制动器) Weight(With brake)		m _b	kg				
制动器数据 Brake data							
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20℃) Static torque(20℃)		M _{br}	Nm	125			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20℃) Brake rated current(20)		I _{br}	A	2.3 ± 7%			
制动器额定功率 (20℃) Brake rated power(20℃)		P _{br}	W	55 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector		M40 8-Pin / 接线盒 Junction box			M58 / 接线盒 Junction box		
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver		VC***-04533-Ea			VC***-06033-EA	VC***-07533-EA	VC***-09033-EA



图例
KEY

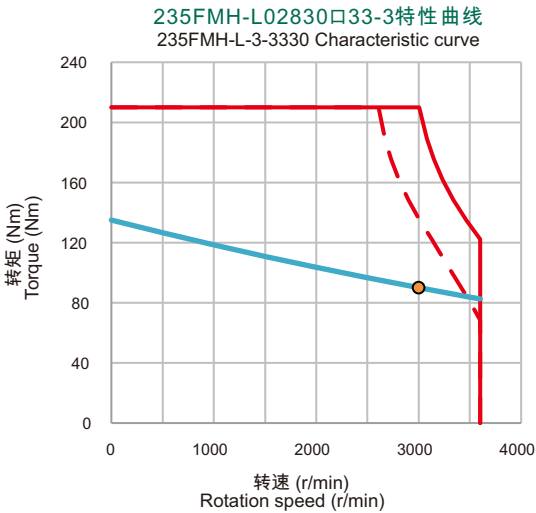
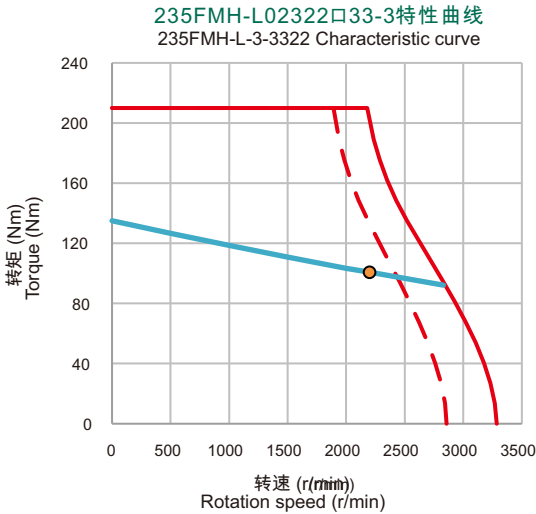
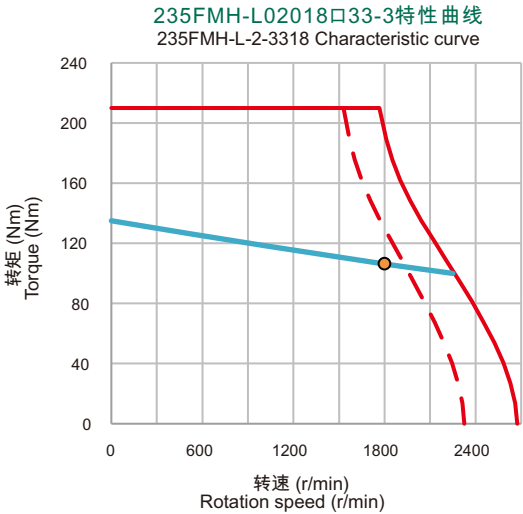
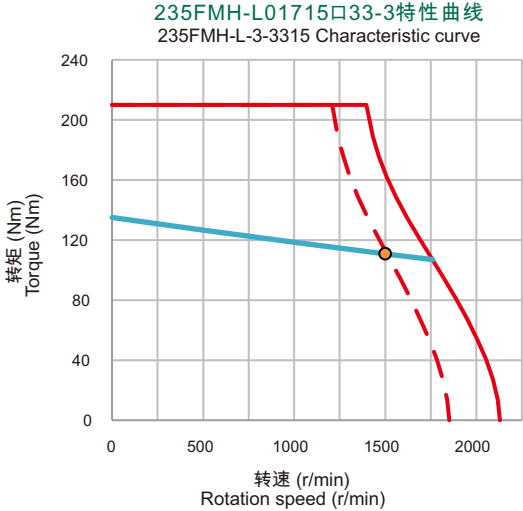
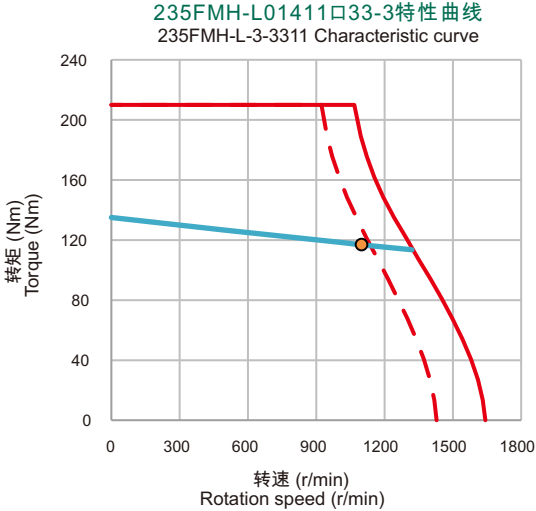
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235FMH-L-3技术数据-380VAC

235FMH-L-3 Technical data -380VAC

电机型号 Motor type			235FMH-L0 1411 □ 33-3	235FMH-L0 1715 □ 33-3	235FMH-L0 2018 □ 33-3	235FMH-L0 2322 □ 33-3	235FMH-L0 2830 □ 33-3
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	135			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	35.7	46.3	58.1	71.4 97.9
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	13.5	17.4	20.0	23.3 28.3
额定转速 Speed		n _N	r/min	1100	1500	1800	2200 3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	117	111	106	101 90.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	30.9	38.0	45.6	53.4 65.3
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	387	398	374	365 352
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值扭矩 Peak torque		M _{max}	Nm	210			
峰值电流 Peak current		I _{max}	Arms	64	82	104	127 175
峰值扭矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	900	1200	1500	1850 2600
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.78	2.92	2.32	1.89 1.38
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	266	205	163	133 97
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.32	0.19	0.12	0.079 0.046
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	16.7	9.93	6.29	4.17 2.21
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁻⁴ kgm ²	149			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁻⁴ kgm ²	164			
电机重量 (无制动器) Weight(No brake)		m	kg				
电机重量 (带制动器) Weight(With brake)		m _b	kg				
制动器数据 Brake data							
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	125			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	2.3 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	55 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector		M40 8-Pin / 接线盒 Junction box			M58 / 接线盒 Junction box		
反馈连接器类型 Feedback connector		M23 12-Pin (双电缆) (Dual cable)					
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver		VC***-03833-Ea		VC***-06033-EA		VC***-07533-EA	VC***-11033-E



图例
KEY

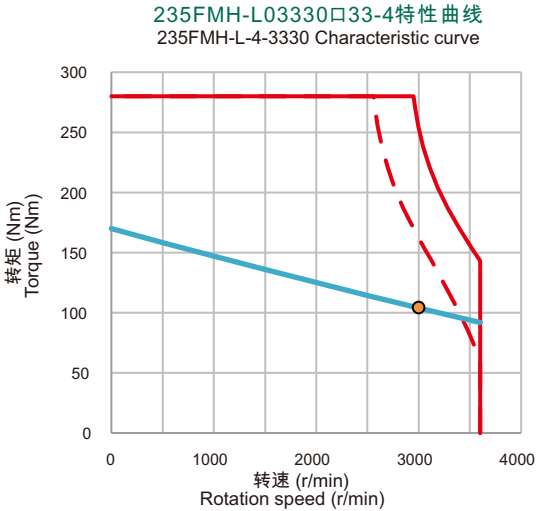
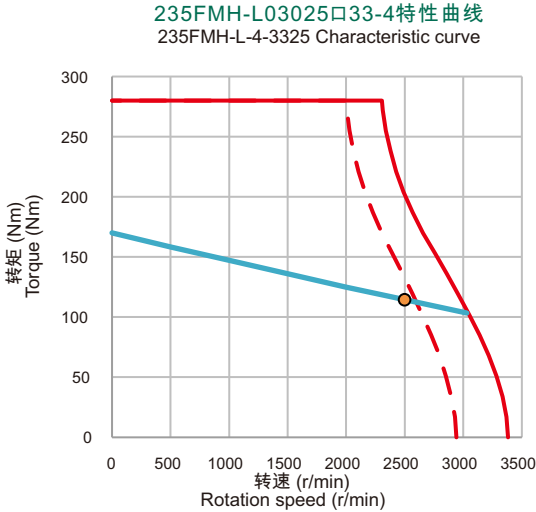
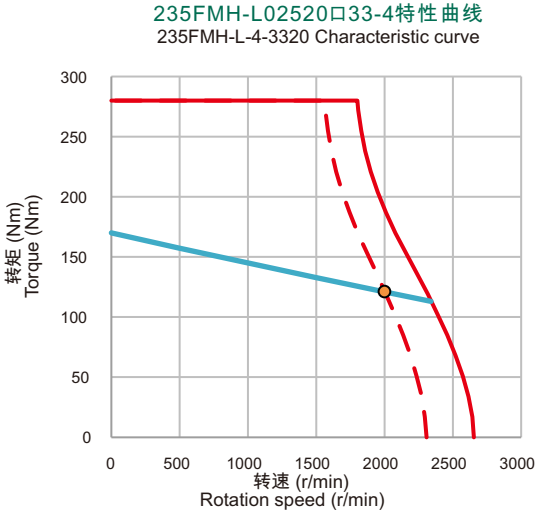
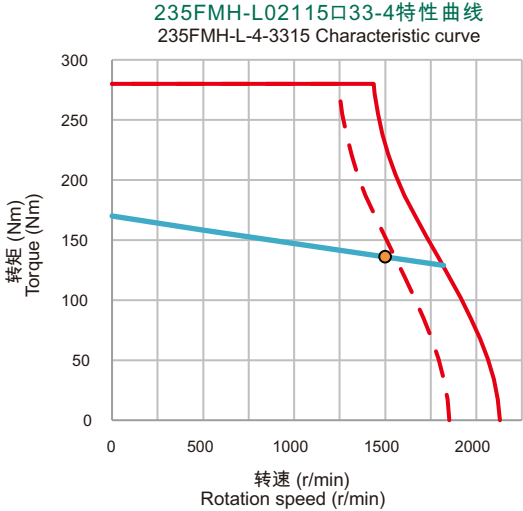
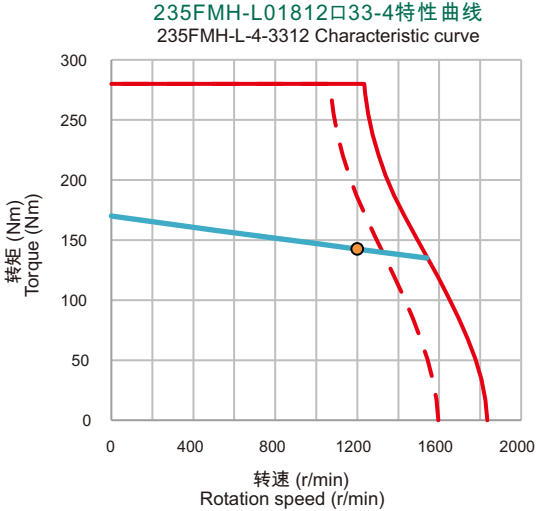
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235FMH-L-4技术数据-380VAC

235FMH-L-4 Technical data -380VAC

电机型号 Motor type			235FMH-L01 812口33-4	235FMH-L0 2115口33-4	235FMH-L0 2520口33-4	235FMH-L0 3025口33-4	235FMH-L0 3330口33-4
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	170			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	49.9	57.9	72.2	92.0 117
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	18.0	21.4	25.3	29.8 32.7
额定转速 Speed		n _N	r/min	1200	1500	2000	2500 3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	143	136	121	114 104
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	42.0	46.3	51.4	61.7 71.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	365	386	400	386 356
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值扭矩 Peak torque		M _{max}	Nm	280			
峰值电流 Peak current		I _{max}	Arms	95	110	137	175 223
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	1000	1200	1500	1950 2500
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.41	2.94	2.36	1.85 1.45
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	238	205	165	129 101
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.17	0.13	0.085	0.056 0.035
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	10.0	7.44	4.79	2.95 1.82
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	196			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	211			
电机重量 (无制动器) Weight(No brake)		m	kg				
电机重量 (带制动器) Weight(With brake)		m _b	kg				
制动器数据 Brake data							
制动器类型 Type		机械弹簧加压式 Mechanical spring pressure type					
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	30			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	125			
制动器额定电压 Brake rated voltage		U _{br}	V DC	24 ± 10%			
制动器额定电流 (20°C) Brake rated current(20)		I _{br}	A	2.3 ± 7%			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	55 ± 7%			
连接器类型 Connector Type							
动力连接器类型 Power connector			M40 8-Pin / 接线盒 Junction box	M58 / 接线盒 Junction box		接线盒 Junction box	
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***-06033-EA	VC***-07533-EA	VC***-11033-E	VC***-15033-E	



图例
KEY

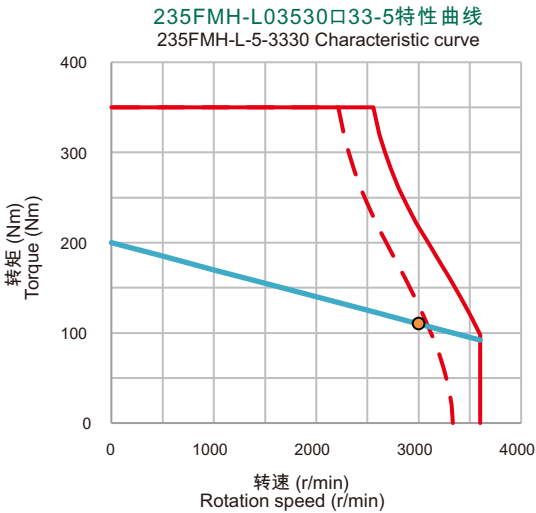
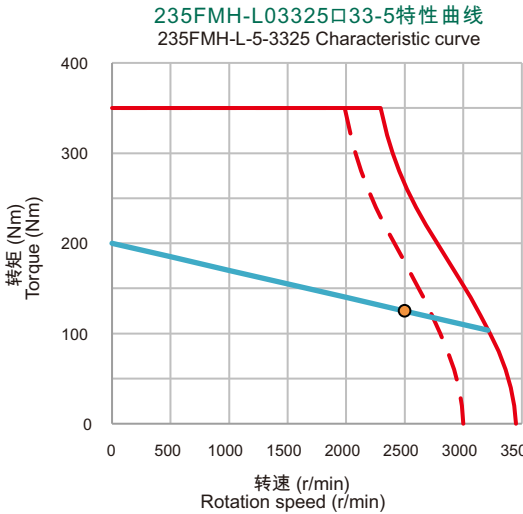
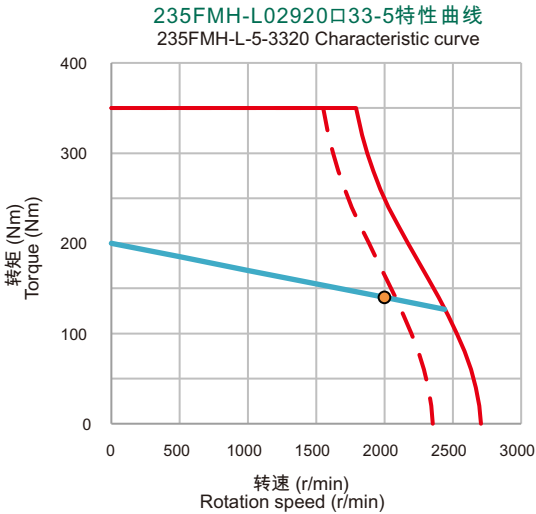
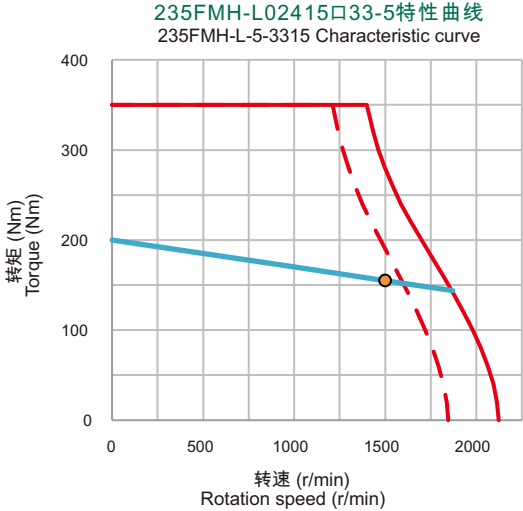
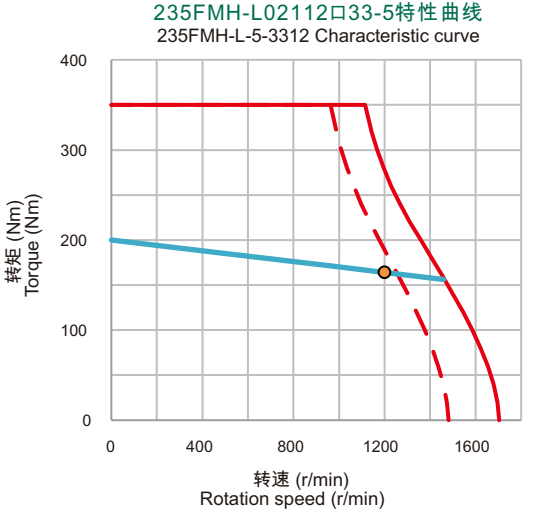
--- M_{max} @ 400VAC
--- M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235FMH-L-5技术数据-380VAC

235FMH-L-5 Technical data -380VAC

电机型号 Motor type			235FMH-L0 2112□33-5	235FMH-L0 2415□33-5	235FMH-L0 2920□33-5	235FMH-L0 3325□33-5	235FMH-L0 3530□33-5
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	200			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	54.2	67.5	86.0	110 122
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	20.6	24.3	29.3	32.7 34.6
额定转速 Speed		n _N	r/min	1200	1500	2000	2500 3000
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	164	155	140	125 110
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	44.4	52.3	60.2	68.6 67.0
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	383	378	385	369 389
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值转矩 Peak torque		M _{max}	Nm	350			
峰值电流 Peak current		I _{max}	Arms	110	137	175	223 247
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	950	1200	1550	1950 2200
电机数据 Motor data							
极数 No. of poles		Poles	8				
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	3.69	2.96	2.32	1.82 1.64
电压常数 (20℃) Voltage constant (20℃)		K _E	V/1krp	257	206	162	127 114
绕组电阻 (20℃) Winding resistance (20℃)		R _{L-L}	Ω	0.16	0.10	0.067	0.042 0.032
绕组电感 (20℃) Winding inductance (20℃)		L _{L-L}	mH	9.31	5.99	3.69	2.27 1.84
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	254			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	---			
电机重量 (无制动器) Weight(No brake)		m	kg				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---			
制动器数据 Brake data							
制动器类型 Type			---				
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---			
制动器静态转矩 (20℃) Static torque(20℃)		M _{br}	Nm	---			
制动器额定电压 Brake rated voltage		U _{br}	V DC	---			
制动器额定电流 (20℃) Brake rated current(20)		I _{br}	A	---			
制动器额定功率 (20℃) Brake rated power(20℃)		P _{br}	W	---			
连接器类型 Connector Type							
动力连接器类型 Power connector			M40 8-Pin / 接线盒 Junction box	M58 / 接线盒 Junction box		接线盒 Junction box	
反馈连接器类型 Feedback connector			M23 12-Pin (双电缆) (Dual cable)				
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver			VC***-06033-EA	VC***-07533-EA	VC***-09033-EA	VC***-11033-E	VC***-15033-E



图例
KEY

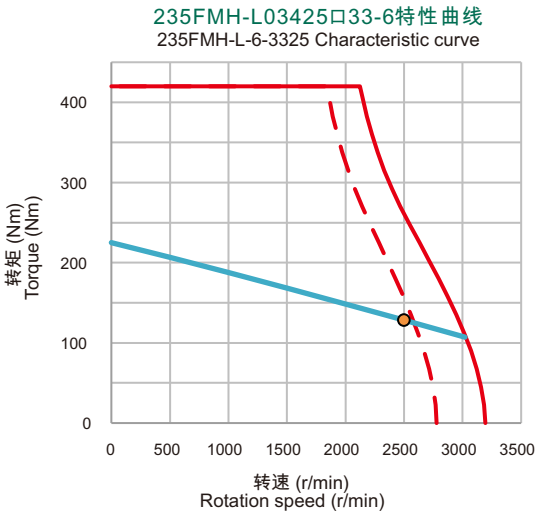
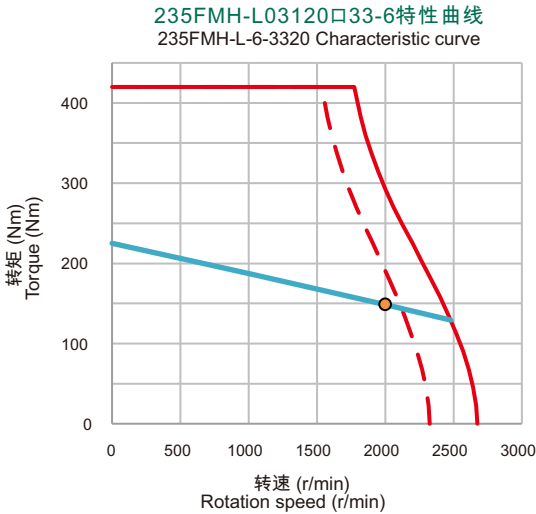
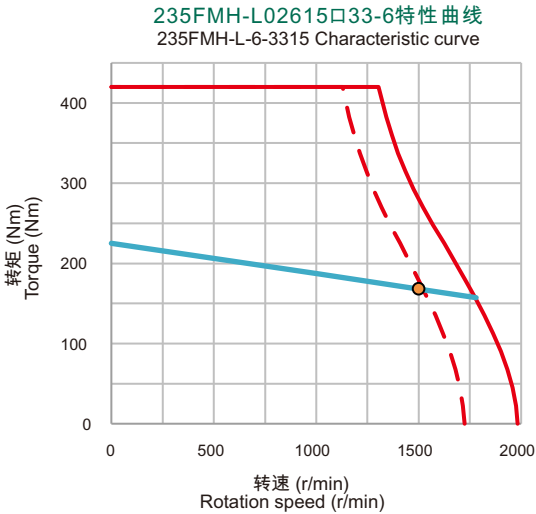
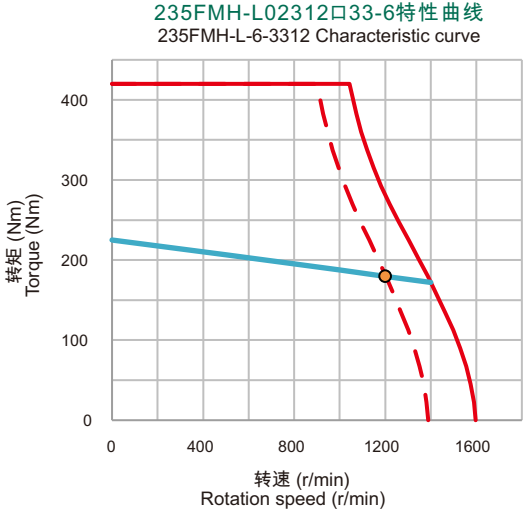
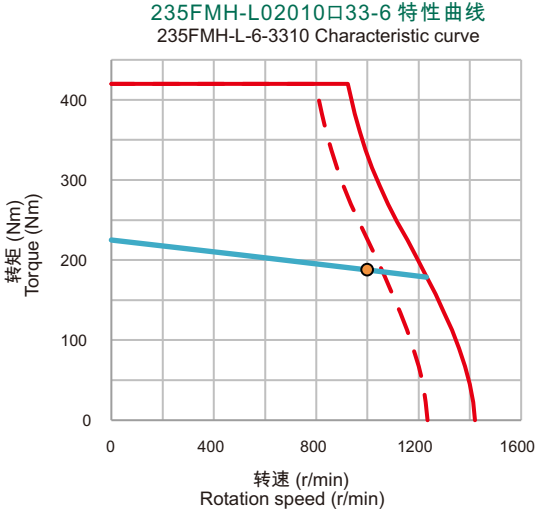
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235FMH-L-6技术数据-380VAC

235FMH-L-6 Technical data -380VAC

电机型号 Motor type			235FMH-L0 2010 □ 33-6	235FMH-L0 2312 □ 33-6	235FMH-L0 2615 □ 33-6	235FMH-L0 3120 □ 33-6	235FMH-L0 3425 □ 33-6
技术参数 Specification		缩写符号 Abbreviations	单位 Unit		值 Value		
选型数据 Selection Data							
工作电压 Operating Voltage		U	V AC	380 ... 480			
堵转转矩 (100K) locked torque (100K)		M _{0-100K}	Nm	225			
堵转电流 (100K) Locked rotor current (100K)		I _{0-100K}	Arms	50.5	56.8	70.6	95.2 114
堵转转矩 (60K) locked torque (60K)		M _{0-60K}	Nm				
堵转电流 (60K) Locked rotor current (60K)		I _{0-60K}	Arms				
额定工作点 (100K) Rated operating point (100K)							
额定功率 (100K) Power (100K)		P _{N-100K}	kW	19.7	22.6	26.4	31.2 33.5
额定转速 Speed		n _N	r/min	1000	1200	1500	2000 2500
额定转矩 (100K) Torque (100K)		M _{N-100K}	Nm	188	180	168	149 128.0
额定电流 (100K) Current (100K)		I _{N-100K}	Arms	42.2	45.5	52.7	63.0 64.7
额定电压 (100K) Voltage (100K)		U _{N-100K}	V AC	380	399	394	380 388
额定工作点 (60K) Rated operating point (60K)							
额定功率 (60K) Power (60K)		P _{N-60K}	kW				
额定转速 Speed		n _N	r/min				
额定转矩 (60K) Torque (60K)		M _{N-60K}	Nm				
额定电流 (60K) Current (60K)		I _{N-60K}	Arms				
额定电压 (60K) Voltage (60K)		U _{N-60K}	V AC				
极限数据 Limit data							
最大允许转速 (机械) Maximum allowable speed (mechanical)		n _{mechmax}	r/min	3600			
峰值转矩 Peak torque		M _{max}	Nm	420			
峰值电流 Peak current		I _{max}	Arms	110	124	154	207 247
峰值转矩转折点 (380VAC) Peak torque turning point (380VAC)		n _{nee}	r/min	800	900	1100	1500 1800
电机数据 Motor data							
极数 No. of poles		Poles		8			
转矩常数 (100K) Torque constant (100K)		K _{T-100K}	Nm/A	4.45	3.96	3.19	2.36 1.98
电压常数 (20°C) Voltage constant (20°C)		K _E	V/1krp	308	274	220	163 137
绕组电阻 (20°C) Winding resistance (20°C)		R _{L-L}	Ω	0.18	0.15	0.093	0.053 0.037
绕组电感 (20°C) Winding inductance (20°C)		L _{L-L}	mH	11.2	8.82	5.73	3.15 2.21
转动惯量 (无制动器) Rotary inertia(No brake)		J	10 ⁴ kgm ²	311			
转动惯量 (带制动器) Rotary inertia(with brake)		J _b	10 ⁴ kgm ²	---			
电机重量 (无制动器) Weight(No brake)		m	kg				
电机重量 (带制动器) Weight(With brake)		m _b	kg	---			
制动器数据 Brake data							
制动器类型 Type				---			
制动器背隙最大值 Maximum back clearance		B _{br}	arcmin	---			
制动器静态转矩 (20°C) Static torque(20°C)		M _{br}	Nm	---			
制动器额定电压 Brake rated voltage		U _{br}	V DC	---			
制动器额定电流 (20°C) Brake rated current(20 °)		I _{br}	A	---			
制动器额定功率 (20°C) Brake rated power(20°C)		P _{br}	W	---			
连接器类型 Connector Type							
动力连接器类型 Power connector				M40 8-Pin / 接线盒 Junction box	M58 / 接线盒 Junction box		接线盒 Junction box
反馈连接器类型 Feedback connector				M23 12-Pin (双电缆) (Dual cable)			
适配驱动器 Matcheddriver							
适配驱动器 Matcheddriver				VC***-06033-EA	VC***-07533-EA	VC***-11033-E	VC***-15033-E

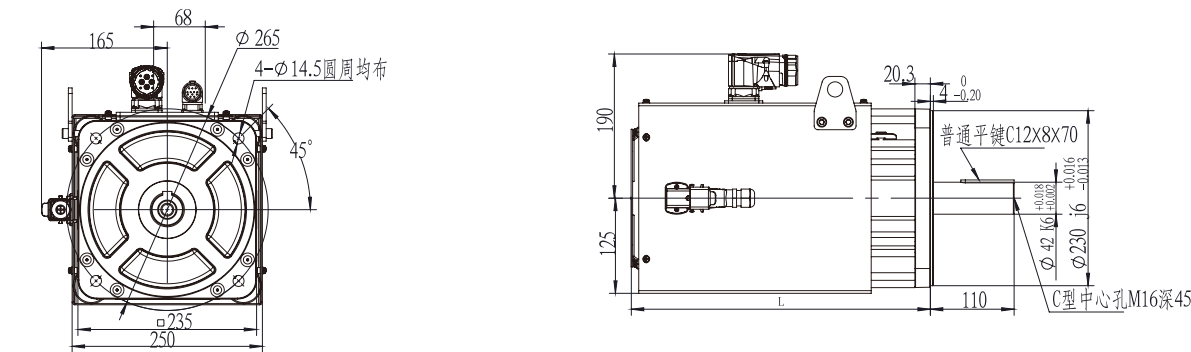


图例
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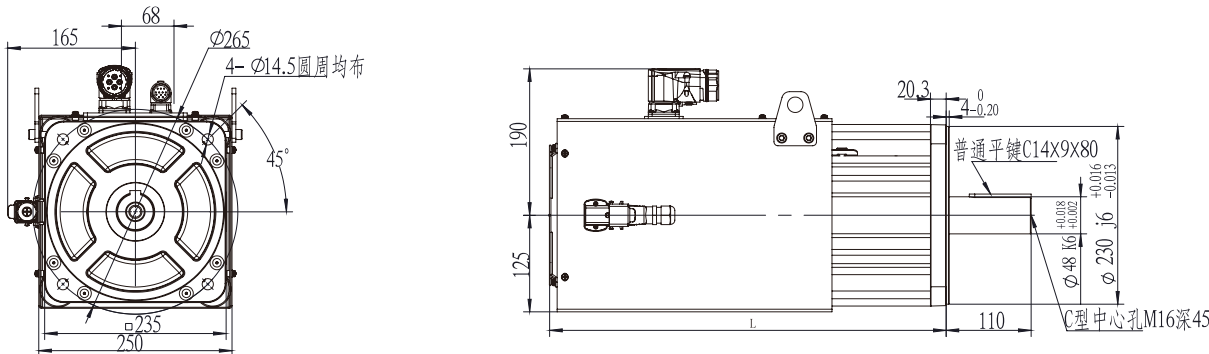
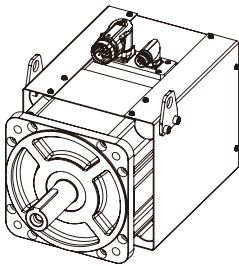
--- M_{max} @ 400VAC
— M_{max} @ 460VAC

--- S₁ @ 100K
● P_N - 100K

235FMH-L-口机械尺寸
235FMH-L-口Mechanical dimensions



电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
235FMH-L-2	343	453
235FMH-L-3	393	503
235FMH-L-4	443	553



电机型号 Motor type	电机长度L (无制动器) Motor length L (No brake)	电机长度L (带制动器) Motor length L (with brake)
235FMH-L-5	513	/
235FMH-L-6	563	/

