

VEICHI

V9E series

General Servo Motor



Official Website

Version: Y5/2-07

Any contents in this book are subject to change without notice. Veichi Electric Co., Ltd all rights reserved, reproduction in all its forms is strictly prohibited.

VEICHI

Suzhou Veichi Electric Co., Ltd

No.1000 Songjia Road,Guoxiang street,Wuzhong Economic and Technological Development Zone,Suzhou

Tel: +86-512-6617 1988 Fax: +86-512-6617 3610

Facebook: <https://www.facebook.com/veichigroup>

WhatsApp: +86-138 2881 8903

<https://www.veichi.com/>

Stock code:688698



About us

Since its inception, VEICHI Electric (Stock Code: 688698) has been a pioneer in electrical transmission and industrial control, specializing in the research, development, production, and distribution of advanced industrial automation products. It serves a global clientele, delivering competitive, secure, and reliable solutions across multiple regions with R&D centers and production facilities in Suzhou, Shenzhen, and Xi'an, along with a wholly-owned subsidiary in India.

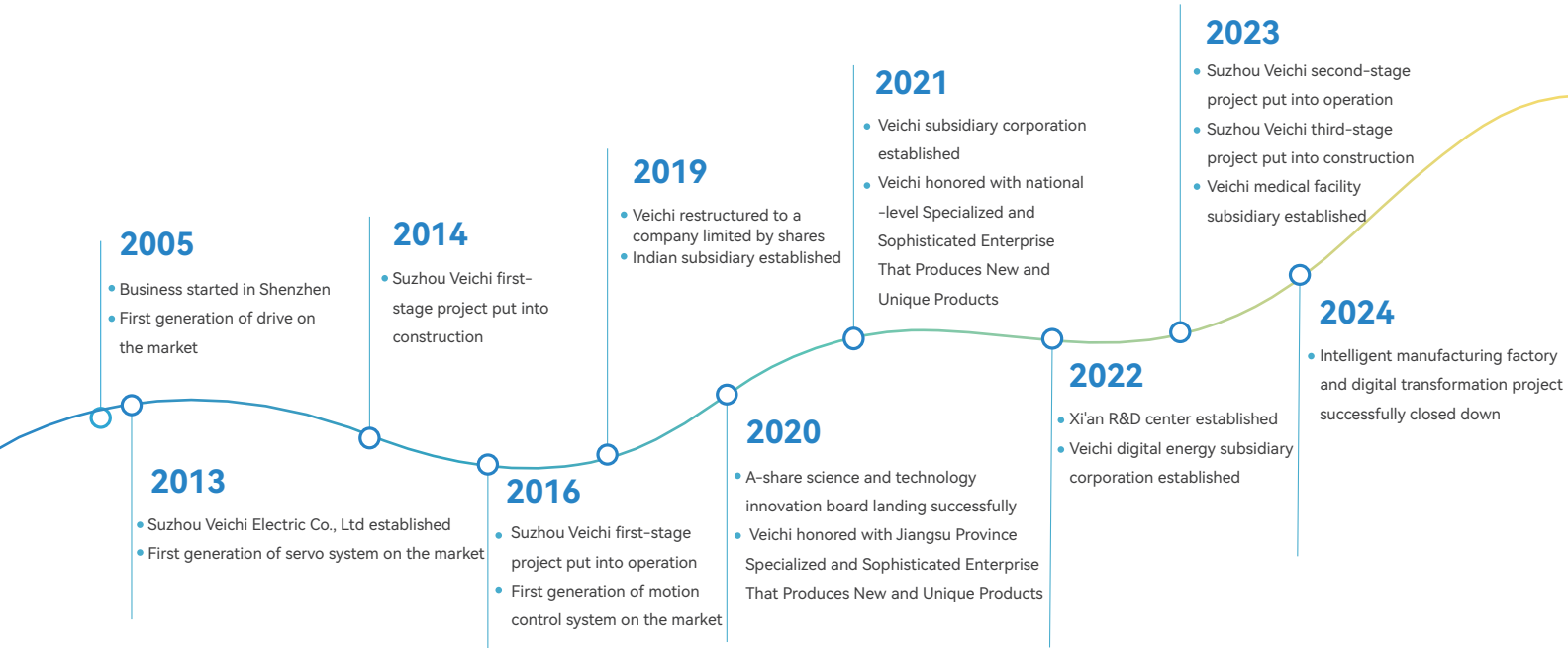
The comprehensive product portfolio, including AC drives, servo systems, and control systems, is widely applied in various industries, providing tailored solutions that drive the digital and intelligent transformation of modern manufacturing. Additionally, we are expanding into emerging fields such as robotics, new energy, and medical technologies, offering innovative products like coreless motors, frameless motors, photovoltaic storage inverters, and surgical power systems.

Along the way, VEICHI has developed a robust suite of proprietary technologies with relentless efforts on motors such as vector control, HF injection control, parameter

auto-tuning, motor protection, start-up fly track, high-speed weak magnet control, scalar V/F control, high-density water-cooled layout, and IGBT protections. As of September 30, 2024, we hold 222 authorized patents, including 54 invention patents.

And in consequence, it has reaped prestigious accolades, including the third batch of "Specialized, Elaborative, Characteristic, and Emerging 'Little Giant' Enterprise", "High-Tech Enterprise", "High and New Technology Enterprise", "Jiangsu Provincial Engineering Technology Research Center", "Jiangsu Provincial Enterprise Technology Center", and "Jiangsu Province Industrial Internet Development Demonstration".

Looking ahead, VEICHI remains unwavering in its commitment to a market-driven and cutting-edge technological innovation. By prioritizing breakthroughs in core technologies, it aims to expand into high-performance, high-quality, and high-reliability applications and drives transformative progress that shapes the future of the electrical transmission and industrial control.



V9E General Servo Motor Family

Type	Power	100W	200W	400W	600W	750W	1000W	1500W	2000W	2500W	3000W	4000W	5000W
High-speed low-inertia L	Model	R1030	R2030	R4030	R6030	R7530	1R030	1R530	2R030	2R530	3R030	4R030	5R030
	Flange	□ 40	□ 60	□ 60	□ 60	□ 80	□ 100	□ 130	□ 100	□ 130	□ 130	□ 130	□ 130
	Voltage: 220V/380V	220V	220V	220V	220V	220V	220V/380V	220V/380V	220V/380V	220V/380V	380V	380V	380V
	Speed: Rated-Max	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-6000	3000-6000	3000-6000	3000-5000	3000-5000	3000-5000
	Torque: Rated-Peak	0.32-1.12	0.64-2.24	1.27-4.45	1.9-6.65	2.4-8.4	3.2-11.2	4.8-14.4	6.4-19.2	8.0-24.0	9.6-28.8	12.7-38.1	15.9-47.7
	Current: Rated-Peak	1.1-3.85	1.5-4.25	2.5-8.75	3.3-11.6	4.3-15.05	5.7-19.95	8-24/46-13.8	10.3-30/55-17.7	13.2-39/67.5-22.5	16-48/83-24.9	11-33	16.1-48.3
	Inertia: Common-Braking	0.051-0.052	0.25-0.27	0.47-0.49	0.78-0.8	1.52-1.63	2.02-2.13	3.05-3.14	4.19-6.33	4.92-5.01	7.75-9.89	9.52-11.66	12.48-14.72
	Drive	1R8A	1R8A	3R3A	3R3A	5R5A	5R5A/3R8D	7R6A/6R0D	9R5A/6R0D	120A/8R4D	8R4D	110D	170D
Medium-speed medium-inertia M	Encoder	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗

Type	Power	100W	200W	400W	600W	750W	1000W	1500W	2000W	2500W	3000W	4000W	5000W
High-speed low-inertia L	Model	R1030	R2030	R4030	R6030	R7530	1R030	1R530	2R030	2R530	3R030	4R030	5R030
	Flange	□ 40	□ 60	□ 60	□ 60	□ 80	□ 100	□ 130	□ 100	□ 130	□ 130	□ 130	□ 130
	Voltage: 220V/380V	220V	220V	220V	220V	220V	220V/380V	220V/380V	220V/380V	220V/380V	380V	380V	380V
	Speed: Rated-Max	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-6000	3000-6000	3000-5000	3000-5000	3000-5000	3000-5000
	Torque: Rated-Peak	0.32-1.12	0.64-2.24	1.27-4.45	1.9-6.65	2.4-8.4	3.2-11.2	4.8-14.4	6.4-19.2	8.0-24.0	9.6-28.8	12.7-38.1	15.9-47.7
	Current: Rated-Peak	1.1-3.85	1.5-4.25	2.5-8.75	3.3-11.6	4.3-15.05	5.7-19.95	8-24/46-13.8	10.3-30/55-17.7	13.2-39/67.5-22.5	16-48/83-24.9	11-33	16.1-48.3
	Inertia: Common-Braking	0.051-0.052	0.25-0.27	0.47-0.49	0.78-0.8	1.52-1.63	2.02-2.13	3.05-3.14	4.19-6.33	4.92-5.01	7.75-9.89	9.52-11.66	12.48-14.72
	Drive	1R8A	1R8A	3R3A	3R3A	5R5A	5R5A/3R8D	7R6A/6R0D	9R5A/6R0D	120A/8R4D	8R4D	110D	170D
Medium-speed medium-inertia M	Encoder	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗

Type	Power	100W	200W	400W	600W	750W	1000W	1500W	2000W	3000W	4000W	6000W	7500W
Medium-speed medium-inertia M	Model	R1030	R2030	R4030	R6030	R7530	1R030	1R530	2R030	3R030	4R030	6R030	7R520
	Flange	□ 40	□ 60	□ 60	□ 60	□ 80	□ 100	□ 130	□ 110	□ 130	□ 180	□ 180	□ 180
	Voltage: 220V/380V	220V	220V	220V	220V	220V	220V/380V	220V/380V	220V/380V	220V/380V	380V	380V	380V
	Speed: Rated-Max	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-6000	3000-5000	2000-4500	2000-4000	2000-4000	2000-4000
	Torque: Rated-Peak	0.32-1.12	0.64-2.24	1.27-4.45	1.9-6.65	2.4-8.4	3.2-11.2	4.8-14.4	6.4-19.2	8.0-24.0	9.6-28.8	12.7-38.1	15.9-47.7
	Current: Rated-Peak	1.1-3.85	1.5-4.25	2.5-8.75	3.3-11.6	4.3-15.05	5.7-19.95	8-24/46-13.8	10.3-30/55-17.7	13.2-39/67.5-22.5	16-48/83-24.9	11-33	16.1-48.3
	Inertia: Common-Braking	0.051-0.052	0.25-0.27	0.47-0.49	0.78-0.8	1.52-1.63	2.02-2.13	3.05-3.14	4.19-6.33	4.92-5.01	7.75-9.89	9.52-11.66	12.48-14.72
	Drive	1R8A	1R8A	3R3A	3R3A	5R5A	5R5A/3R8D	7R6A/6R0D	9R5A/6R0D	120A/8R4D	8R4D	110D	170D
Medium-speed large-inertia M	Encoder	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗

Type	Power	100W	200W	400W	600W	750W	1000W	1500W	2300W	2900W	4400W	5500W	7500W
Medium-speed large-inertia M	Model	R1030	R2030	R4030	R6030	R7530	1R030	1R530	2R030	2R530	4R030	5R515	7R515
	Flange	□ 40	□ 60	□ 60	□ 60	□ 80	□ 100	□ 130	□ 110	□ 180	□ 180	□ 180	□ 180
	Voltage: 220V/380V	220V	220V	220V	220V	220V	220V/380V	220V/380V	220V/380V	220V/380V	380V	380V	380V
	Speed: Rated-Max	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-7000	3000-6000	3000-5000	1500-3000	1500-3000	1500-3000	1500-3000
	Torque: Rated-Peak	0.32-1.12	0.64-2.24	1.27-4.45	1.9-6.65	2.4-8.4	3.2-11.2	4.8-14.4	6.4-19.2	8.0-24.0	9.6-28.8	12.7-38.1	15.9-47.7
	Current: Rated-Peak	1.1-3.85	1.5-4.25	2.5-8.75	3.3-11.6	4.3-15.05	5.7-19.95	8-24/46-13.8	10.3-30/55-17.7	13.2-39/67.5-22.5	16-48/83-24.9	11-33	16.1-48.3
	Inertia: Common-Braking	0.051-0.052	0.25-0.27	0.47-0.49	0.78-0.8	1.52-1.63	2.02-2.13	3.05-3.14	4.19-6.33	4.92-5.01	7.75-9.89	9.52-11.66	12.48-14.72
	Drive	1R8A	1R8A	3R3A	3R3A	5R5A	5R5A/3R8D	7R6A/6R0D	9R5A/6R0D	120A/8R4D	8R4D	110D	170D
Medium-speed large-inertia M	Encoder	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗	⊗ ⊗ ⊗ ⊗

Battery-free Multi-turn Encoder



Maintenance-free for green use

Say goodbye to depleted batteries and unscheduled maintenance



Procedure-free for battery export

Say goodbye to the battery control due to flammability and explosiveness

Application



Semiconductors



Industrial robots

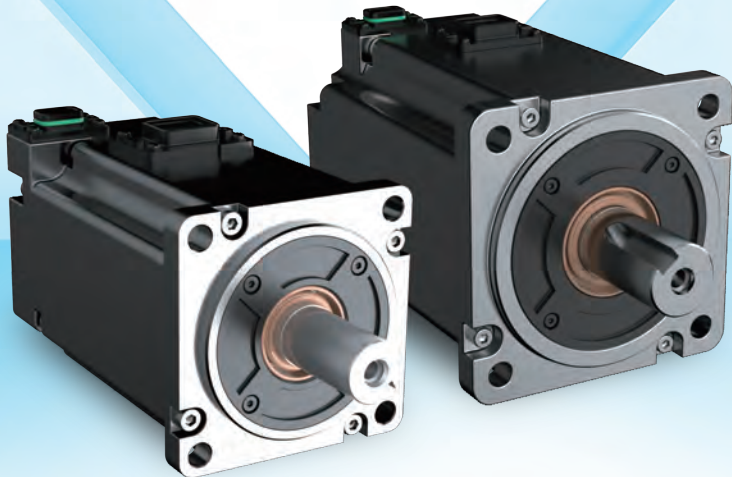


Auto production lines



Precise machine tools

VE9 Characteristics



V9E Series

VEICHI new generation General servo motor series

More models

Low-inertia 60/80mm flange added

Applicable to quick position control occasions like semiconductor, 3C, and lithium industry



Low-inertia 100mm flange added

Applicable to limited installation space like multi-joint robots and spring machines



Low-inertia 130mm flange added

Applicable to large load at high speeds or occasions with frequent start/stop operations



Wider speeds

Enhanced motor speed for higher working efficiency

V9E 40/60/80mm flange

Max speed raised from 6000rpm to 7000rpm

V9E 130mm flange

Max speed raised from 3000rpm to 5000rpm

V9E 180mm flange

Max speed raised from 3000rpm to 4000rpm

Smaller sizes

Length shortened by 3%~5%

Superior position accuracy

24bit or above encoders optional for stable operation and orientation

Better performance

Reduced 2°C~4°C

New magnetic circuits with smaller cogging torque and temperature rise, smoother shaft rotation and more accurate position control at low speeds compared to typical model from V7E series under similar conditions.

Low energy

With reference to Class 1 requirements of GB30253

Higher protection

IP67 (except for shaft extension) for the whole body against water, spray, dust and iron filings in various environments

IP67

Name Rules

V9E-L 06 A-R40 30-D 1

Product Series
V9E

Inertia Level
C: Ultra-low
L: Low
M: Medium
H: High

Flange Size
04: 40mm motor flange
06: 60mm motor flange
13: 130mm motor flange
so as other sizes

Voltage Level
A: 220V AC
D: 380V AC

Rated Power
Rated power=Value*1000, take R as the decimal point
Eg,R40=400W, 1R5=1500W
So as other power values

Brake, flat key and oil seal

No.	Flat key		Brake		Oil seal	
	WITH	W/O	W/O	WITH	W/O	WITH
1	•		•			•
2	•			•		•
3	•		•		•	
4	•			•	•	
5		•	•			•
6		•		•		•
7		•	•		•	
8		•		•	•	

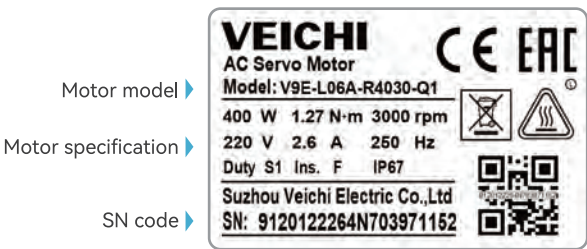
Encoder Type
D: 23-bit multi-turn absolute encoder
R: 17-bit multi-turn absolute encoder
Q: 17-bit single-turn absolute encoder
J: 23-bit mechanical multi-turn encoder
W: 25-bit multi-turn absolute encoder

Rated Speed
Rated speed= Value*100
Eg. 30 means 3000rpm
So as the other speeds

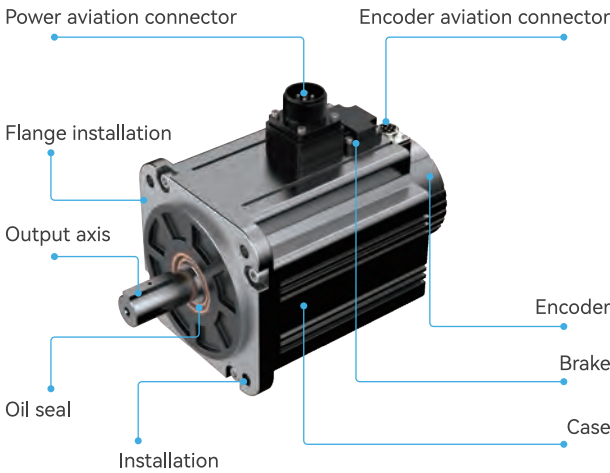
Mechanical Characteristics

Item	Description	
Work pattern	S1(Continuous)	
Insulation resistance	DC500V , 5GΩ and above	
Excitation	Permanent magnet	
Installation	Flange	
Insulation level	F	
Insulation voltage	AC1500V 1min (220V); AC1800V 1min (380V)	
Protection level	IP67(excluding the axis extension end)	
Forward rotation	The servo drive defaults to a forward command that rotates counterclockwise (CCW) when viewed from the axis extension side	
Environment	Working temperature	-15℃~40℃ (not freezing) (Please refer to the derating curve for use over 40℃)
	Working humidity	20%~80%(No condensation)
	Installation	• Places with no corrosive or explosive gases indoors • Places that are well ventilated with little dust, garbage, and dampness • Places that are convenient for inspection and cleaning • Please refer to "3.3 Derating Characteristics "when above 1000m. (Normal use when below 1000m) • Places where no strong magnetic fields are generated • Places far away from heat sources such as furnaces • For places with grinding fluid, oil mist, iron powder, cutting, etc., please choose the model with oil seal • Oil seals are against dust, not oil for a long period • Places that are not in vacuum • Places that are not under vibration otherwise abruptness may occur during rotation • It's normal if there is a "clattering" sound on motors with brakes • Couplings types and mounting in conformity to requirements
	Storage	When storing the motor unpowered, please observe the following environmental requirements: • Storage temperature: -20℃~+60℃(no freezing) • Storage humidity: 20%~80%RH (no condensation)
	Impact acceleration	490m/s ² (based on flange-side)
	Impact No.	2
Impact strength		
Vibration strength	Vibration acceleration	49m/s ² (based on flange-side)

Nameplate and Part Description

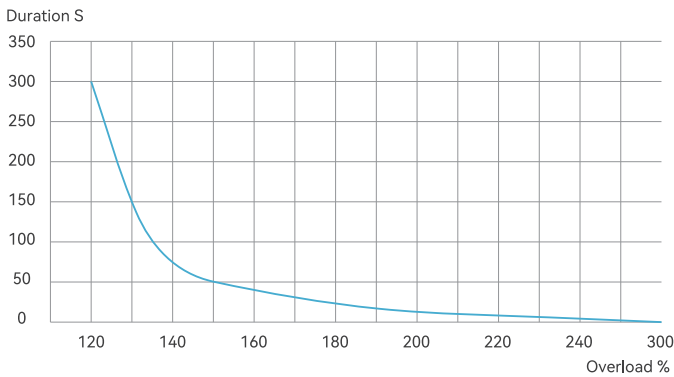


Rated power: 400W	Rated torque: 1.27N.m	Rated speed: 3000rpm
Voltage level: 200V	Rated current: 2.6A	Rated frequency: 250Hz
Work pattern: Duty S1	Insulation level: Ins.F	Protection level: IP67



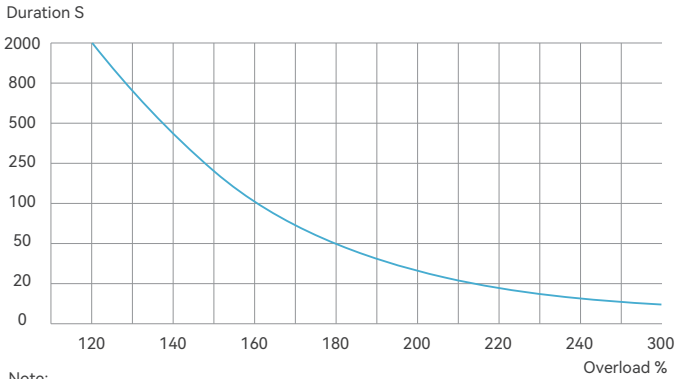
Overload Characteristics

Overload (%)	Duration (s)
120	300
130	150
140	75
150	65
160	55
170	48
180	40
190	35
200	30
210	26
220	20
230	15
240	10
250	7
300	3



- Note:
1. The overload characteristic diagram above applies to the motors with 100, 110, 130, 180mm flanges (850W~7500W, inertia-irrelevant);
 2. V9E series motors with VEICHI servo drives are designed with overload protection and overheat protection in accordance to the requirements of CE, UL and other certificates;
 3. Servo alarm or motor failure may occur if overload operation time is exceeded. Make a comprehensive assessment on the operating load and working system before selecting the model, so as to avoid wrong selection of motors causing this problem.
 4. Please set the motor overload protection gain according to its overload capacity in order to effectively protect the motors with different loads. The protection gain is generally kept to the default, but it can be changed according to the actual heat generation from the motor when the environment temperature is high or the acceleration/deceleration is frequent during the short cycle.

Overload (%)	Duration (s)
120	2000
130	800
140	500
150	250
160	100
170	60
180	50
190	40
200	36
210	28
220	22
230	19
240	15
250	13
300	6



- Note:
1. The overload characteristic diagram above applies to the motors with 100, 110, 130, 180mm flanges (850W~7500W, inertia-irrelevant);
 2. V9E series motors with VEICHI servo drives are designed with overload protection and overheat protection in accordance to the requirements of CE, UL and other certificates;
 3. Servo alarm or motor failure may occur if overload operation time is exceeded. Make a comprehensive assessment on the operating load and working system before selecting the model, so as to avoid wrong selection of motors causing this problem.
 4. Please set the motor overload protection gain according to its overload capacity in order to effectively protect the motors with different loads. The protection gain is generally kept to the default, but it can be changed according to the actual heat generation from the motor when the environment temperature is high or the acceleration/deceleration is frequent during the short cycle.

Load Inertia and Radial/Axial Loads

Load inertia:

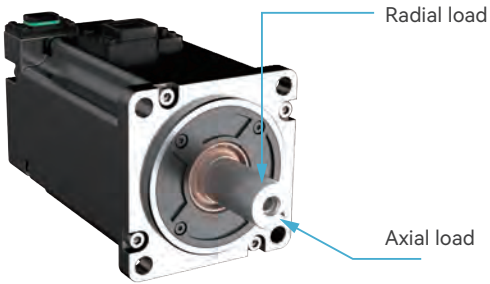
This value is an approximate standard and may vary with the drive conditions of the servomotor, but the larger the load inertia is, the poorer the responsiveness is, and it may cause motion instability if it is too large.

If the servo drive is used beyond the allowable load moment of inertia, an overvoltage alarm occurs during deceleration. Besides, an overload alarm occurs when the servo drive has a built-in braking resistor.

Take any of the following measures when such an alarm occurs:

- Decrease the torque limit value.
- Decrease the deceleration curvature.
- Decrease the maximum speed.

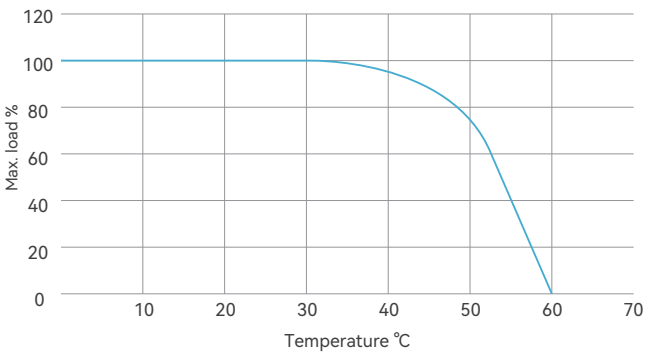
If the alarm is not canceled after taking the above measures, an external braking resistor is required.



Radial/axial load:

This means the force that can be withstood on the motor axis during installation and operation, divided into radial and axial two components. The values given in this document are the maximum allowable values, i.e., noise, jamming, abnormal temperature rise, or extra wear and tear may happen once the values are exceeded, leading to shortened motor life or even damages. See the subsequent motor parameter table for details.

Derating Characteristics

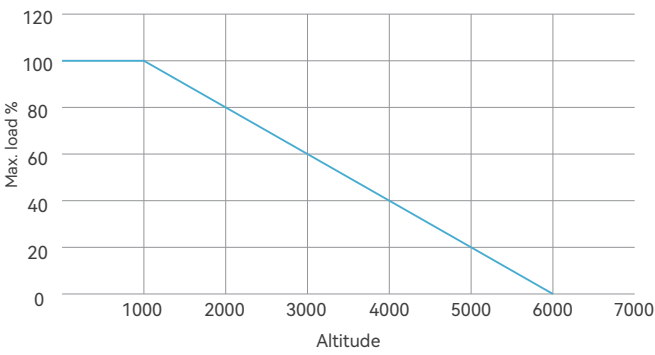


Derating Curve of Temperature

Note:

The ratings of the servomotor are the continuous permissible values for an operating ambient temperature of 40°C.

If the operating ambient temperature exceeds 40°C (max. 60°C), please refer to the derating curve shown in the above chart.



Derating Curve of Altitude

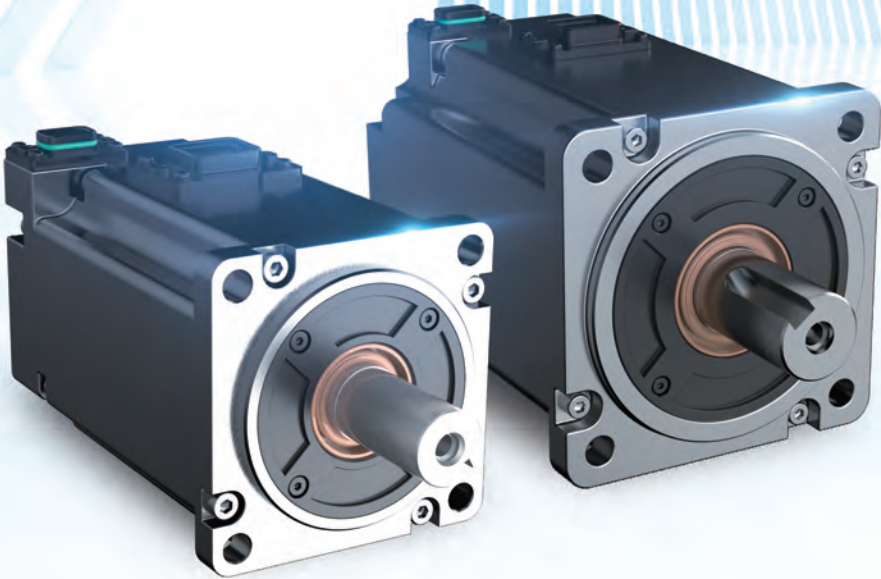
Note:

The ratings of the servomotor are the continuous permissible values for an operating altitude of 1000m.

If the operating altitude exceeds 1000m (max. 2000m), the heat dissipation effect of air will be reduced, so please refer to the derating curve shown in the above chart.

V9E

Servo Motor



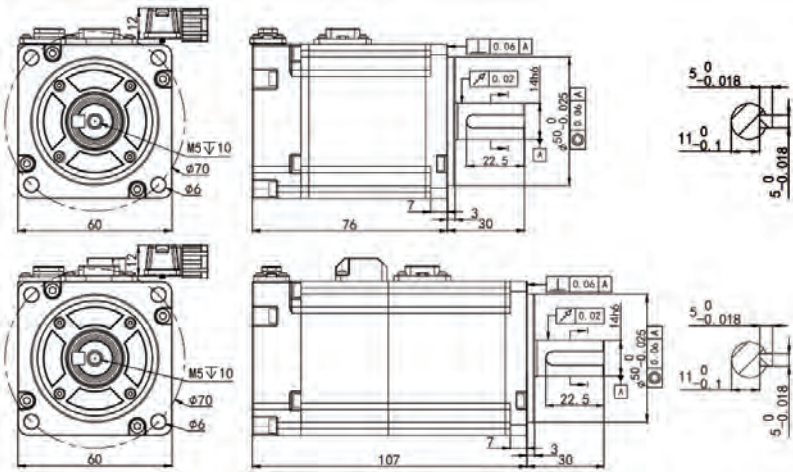
High-speed
ultra-low inertia

Torque range: 0.64~6.4(N·m)

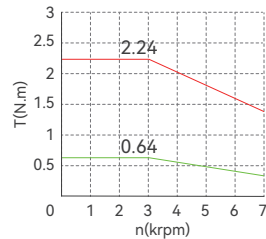
Speed range: 3000~7000(rpm)

V9E-C06A-R2030-□#

Rated power	W	200	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	0.64	
Peak torque	N.m	2.24	
Voltage level	V	220	
Rated current	A	1.6	
Peak current	A	5.6	
Applicable drive	/	1R8A	
Rotational inertia	kg.cm ²	0.09	Without brake
	kg.cm ²	0.11	With brake
Load	N	74	Axial
	N	245	Radial

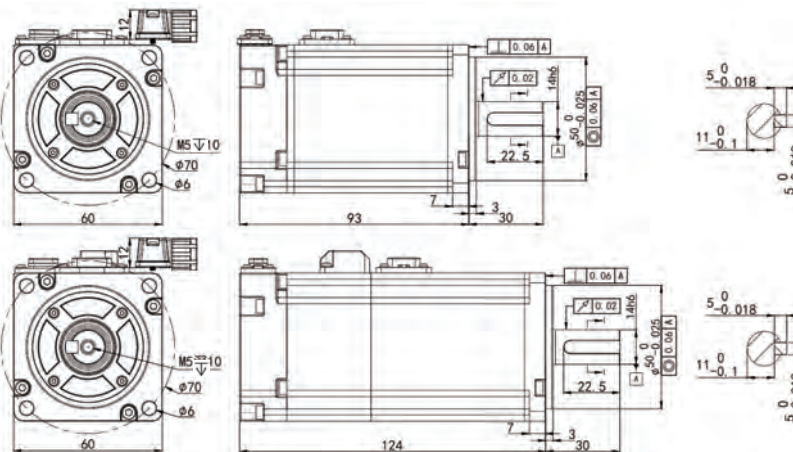


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

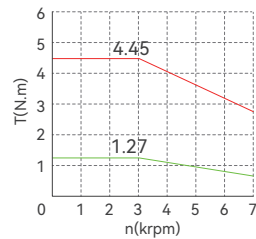


V9E-C06A-R4030-□#

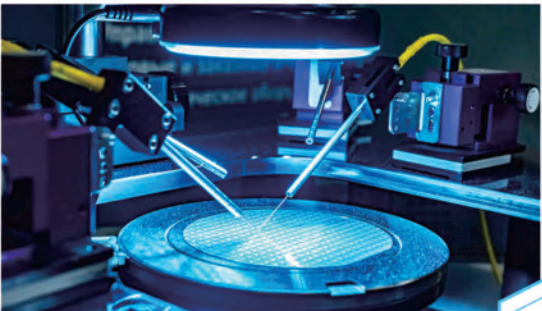
Rated power	W	400	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	1.27	
Peak torque	N.m	4.45	
Voltage level	V	220	
Rated current	A	2.7	
Peak current	A	9.5	
Applicable drive	/	3R3A	
Rotational inertia	kg.cm ²	0.16	Without brake
	kg.cm ²	0.18	With brake
Load	N	74	Axial
	N	245	Radial



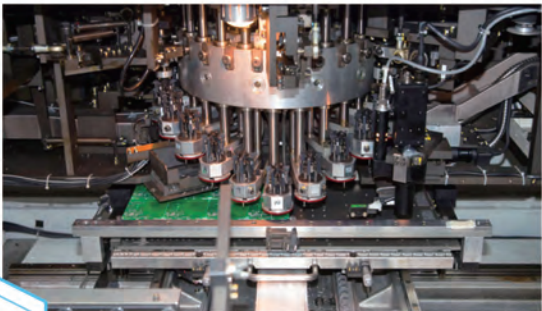
Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box



Applications



Semiconductors



3C



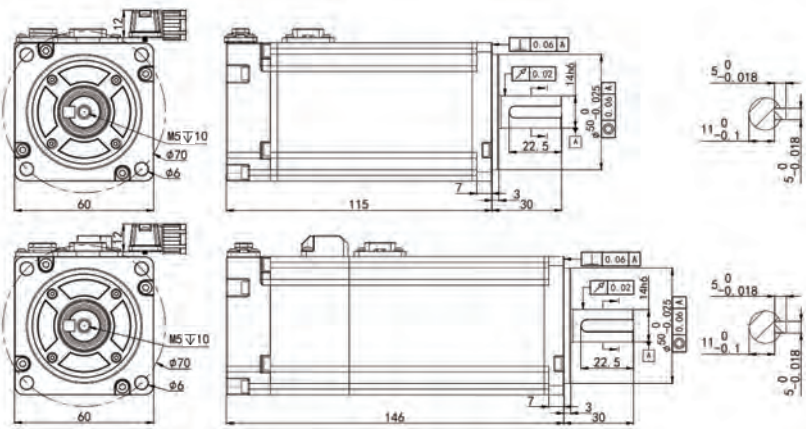
SMT



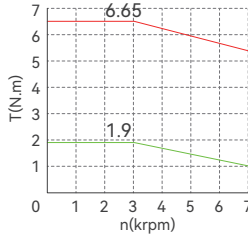
PCB inspection

V9E-C06A-R6030-□#

Rated power	W	600	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	1.9	
Peak torque	N.m	6.65	
Voltage level	V	220	
Rated current	A	3.3	
Peak current	A	11.6	
Applicable drive	/	3R3A	
Rotational inertia	kg·cm ²	0.24	
	kg·cm ²	0.26	
Load	N	74	
	N	245	

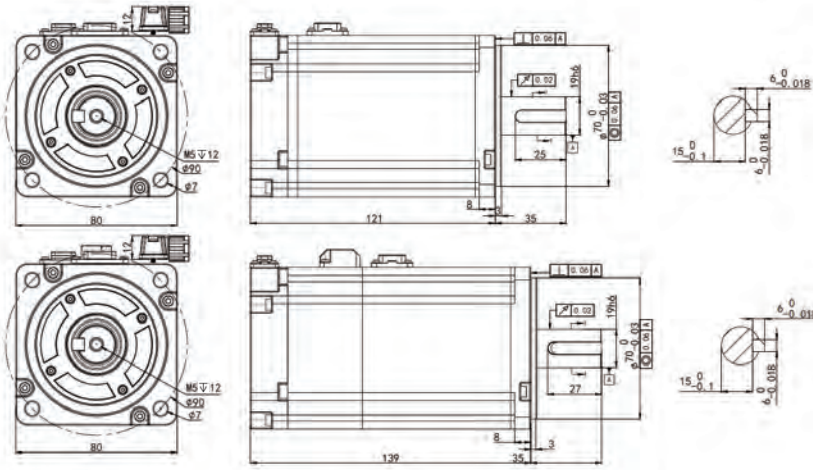


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

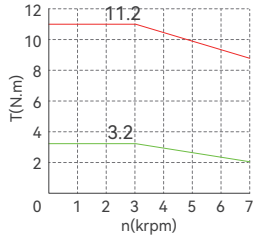


V9E-C08A-1R030-□#

Rated power	W	1000	
Flange size	mm	80	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	3.2	
Peak torque	N.m	11.2	
Voltage level	V	220	
Rated current	A	5.7	
Peak current	A	19.95	
Applicable drive	/	5R5A	
Rotational inertia	kg·cm ²	0.9	Without brake
	kg·cm ²	1.01	With brake
Load	N	147	Axial
	N	392	Radial

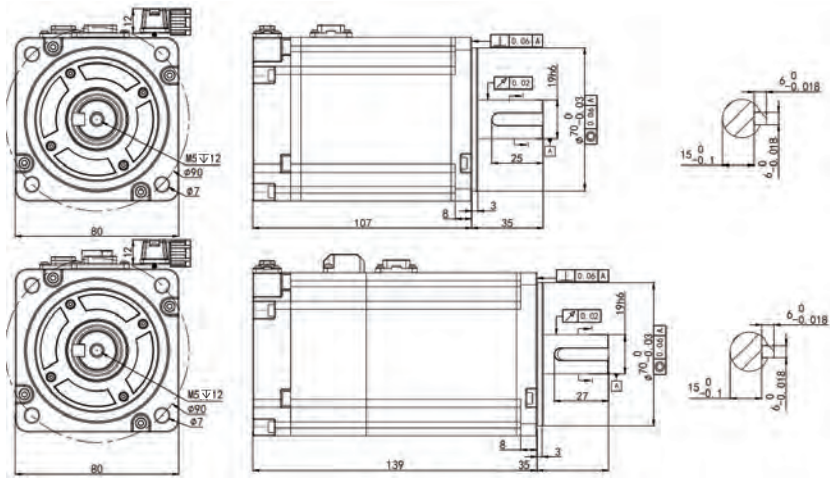


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

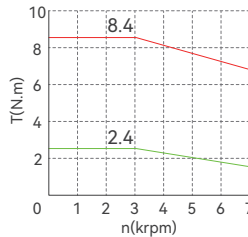


V9E-C08A-R7530-□#

Rated power	W	750	
Flange size	mm	80	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	2.4	
Peak torque	N.m	8.4	
Voltage level	V	220	
Rated current	A	4.8	*
Peak current	A	16.8	
Applicable drive	/	5R5A	
Rotational inertia	kg·cm ²	0.58	Without brake
	kg·cm ²	0.69	With brake
Load	N	147	Axial
	N	392	Radial

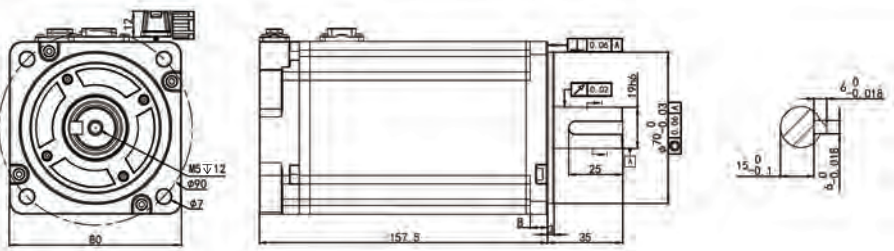


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

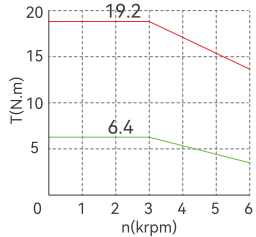


V9E-C08A-2R030-□1

Rated power	W	2000	
Flange size	mm	80	
Rated speed	rpm	3000	
Peak speed	rpm	6000	
Rated torque	N.m	6.4	
Peak torque	N.m	19.2	
Voltage level	V	220	
Rated current	A	7.7	
Peak current	A	23.1	
Applicable drive	/	7R6A	
Rotational inertia	kg·cm ²	1.27	Without brake
	kg·cm ²	1.38	With brake
Load	N	147	Axial
	N	392	Radial

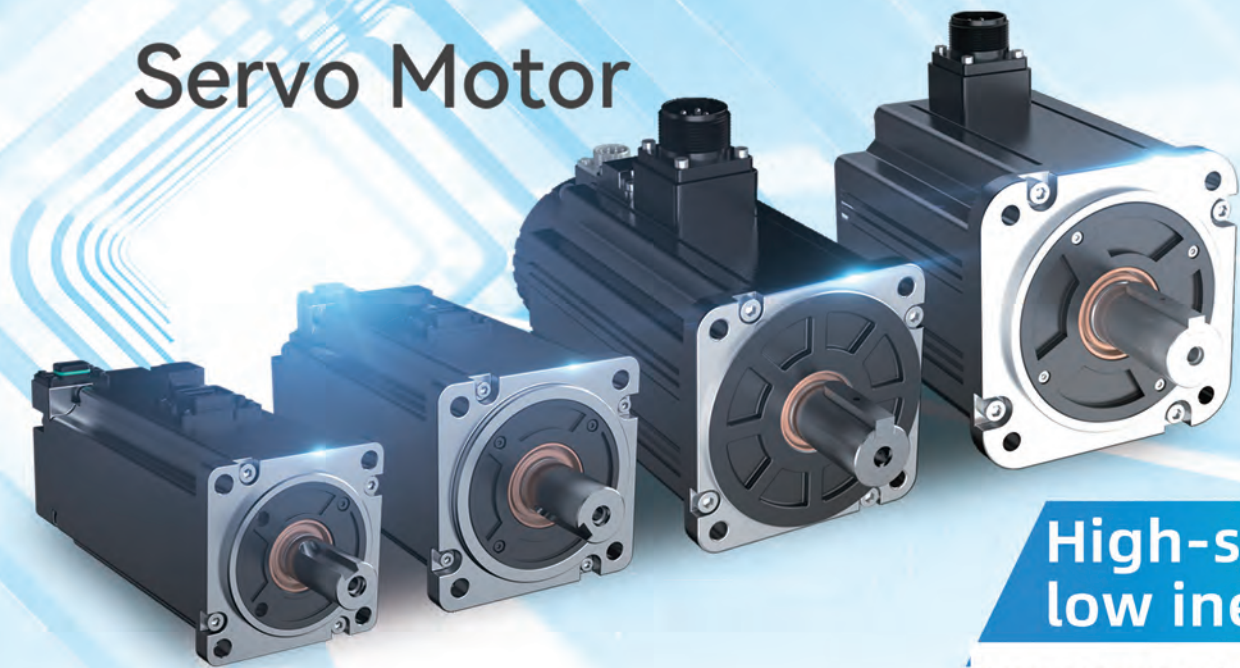


Power cable	VM050-LXXX-OTL	Without brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box



V9E

Servo Motor



High-speed
low inertia

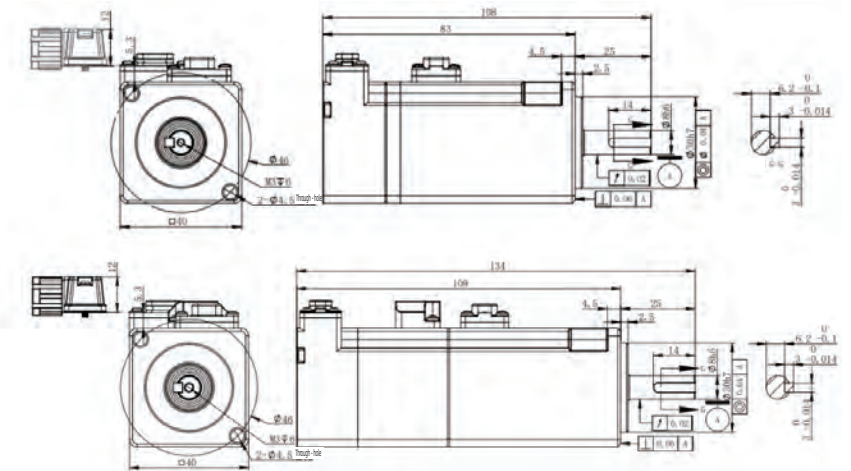
Torque range: 0.32~15.9 (N·m)

Rated speed: 3000 (rpm)

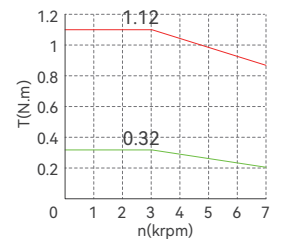
Max. speed: 5000/6000/7000(rpm)

V9E-L04A-R1030-□#

Rated power	W	100	
Flange size	mm	40	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	0.32	
Peak torque	N.m	1.12	
Voltage level	V	220	
Rated current	A	1.1	
Peak current	A	3.85	
Applicable drive	/	1R8A	
Rotational inertia	kg.cm ²	0.051	Without brake
	kg.cm ²	0.052	With brake
Load	N	54	Axial
	N	78	Radial

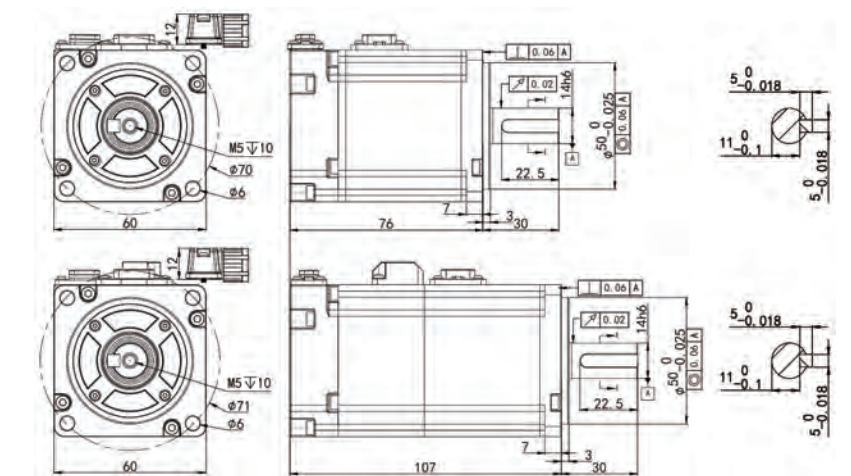


Power cable	VM030-LXXX-UTL	Without brake
	VM030-LXXX-UBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

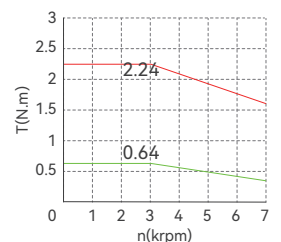


V9E-L06A-R2030-□#

Rated power	W	200	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	0.64	
Peak torque	N.m	2.24	
Voltage level	V	220	
Rated current	A	1.5	
Peak current	A	4.25	
Applicable drive	/	1R8A	
Rotational inertia	kg.cm ²	0.25	Without brake
	kg.cm ²	0.27	With brake
Load	N	74	Axial
	N	245	Radial



Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box



Applications



Auto production lines



Packing machines



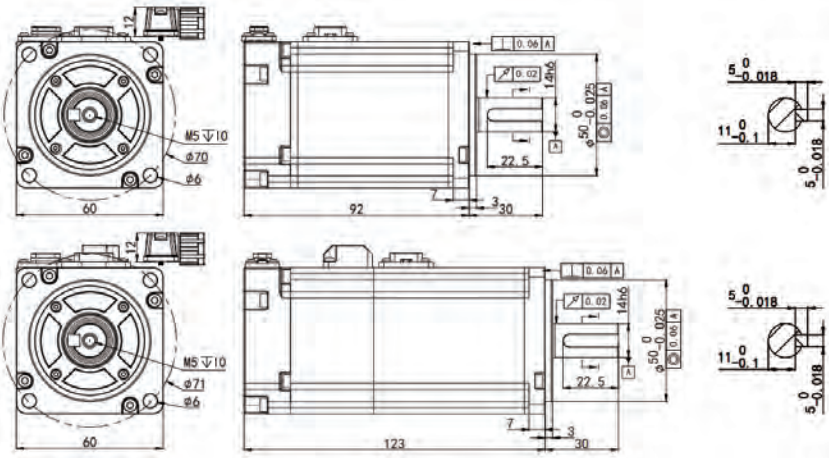
Turning-milling machines



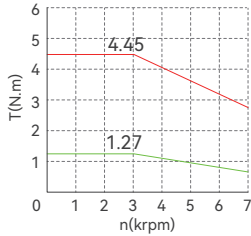
Winding machines

V9E-L06A-R4030-□#

Rated power	W	400	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	1.27	
Peak torque	N.m	4.45	
Voltage level	V	220	
Rated current	A	2.5	
Peak current	A	8.75	
Applicable drive	/	3R3A	
Rotational inertia	kg·cm ²	0.47	Without brake
	kg·cm ²	0.49	With brake
Load	N	74	Axial
	N	245	Radial

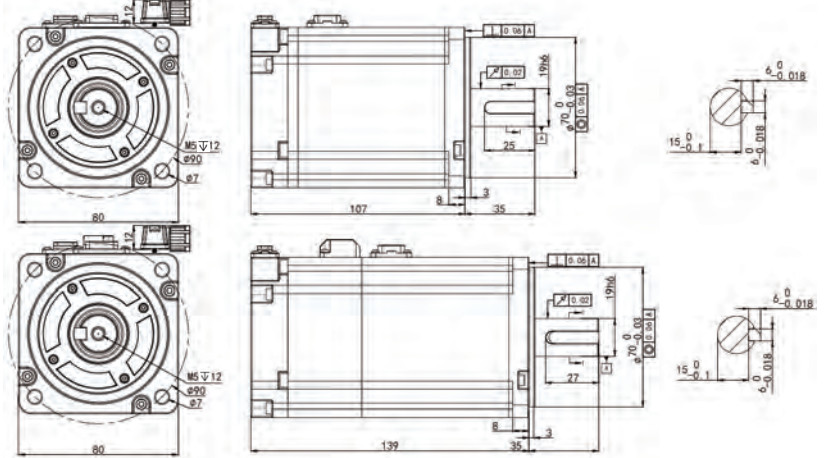


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

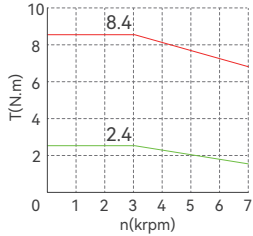


V9E-L08A-R7530-□#

Rated power	W	750	
Flange size	mm	80	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	2.4	
Peak torque	N.m	8.4	
Voltage level	V	220	
Rated current	A	4.3	*
Peak current	A	15.05	
Applicable drive	/	5R5A	
Rotational inertia	kg·cm ²	1.52	Without brake
	kg·cm ²	1.63	With brake
Load	N	147	Axial
	N	392	Radial

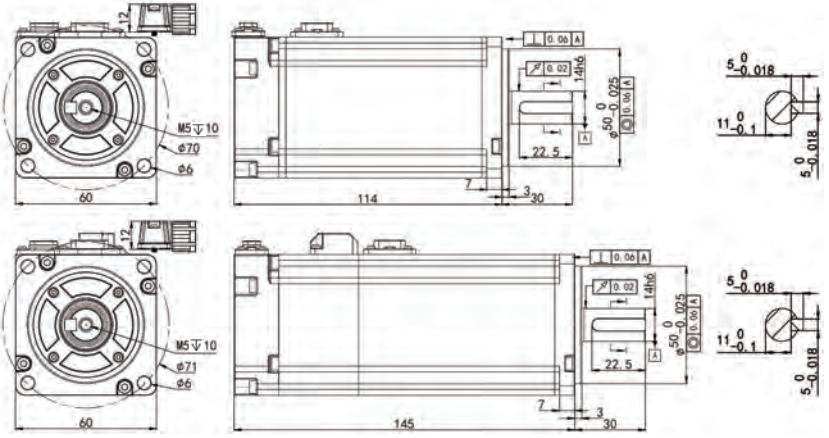


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

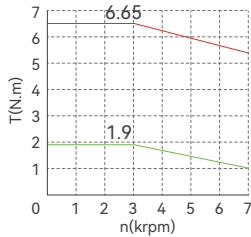


V9E-L06A-R6030-□#

Rated power	W	600	
Flange size	mm	60	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	1.9	
Peak torque	N.m	6.65	
Voltage level	V	220	
Rated current	A	3.3	
Peak current	A	11.6	
Applicable drive	/	3R3A	
Rotational inertia	kg·cm ²	0.78	Without brake
	kg·cm ²	0.8	With brake
Load	N	74	Axial
	N	245	Radial

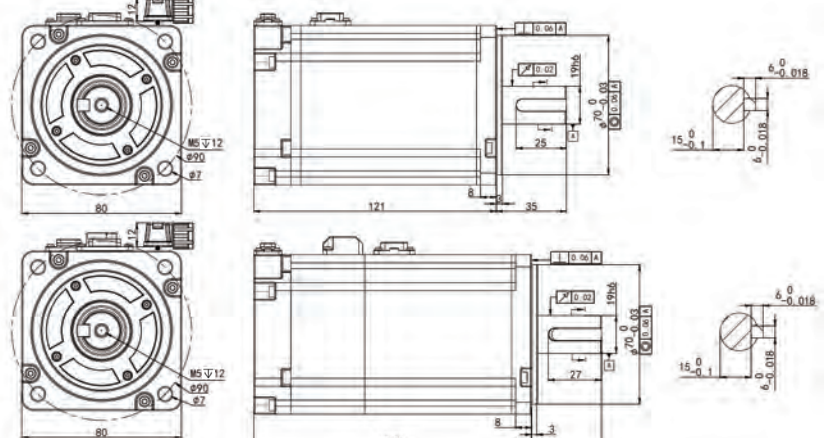


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box

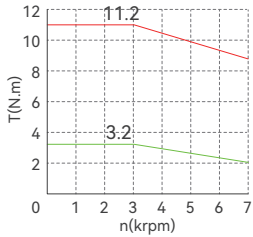


V9E-L08A-1R030-□#

Rated power	W	1000	
Flange size	mm	80	
Rated speed	rpm	3000	
Peak speed	rpm	7000	
Rated torque	N.m	3.2	
Peak torque	N.m	11.2	
Voltage level	V	220	
Rated current	A	5.7	
Peak current	A	19.95	
Applicable drive	/	5R5A	
Rotational inertia	kg·cm ²	2.02	Without brake
	kg·cm ²	2.13	With brake
Load	N	147	Axial
	N	392	Radial

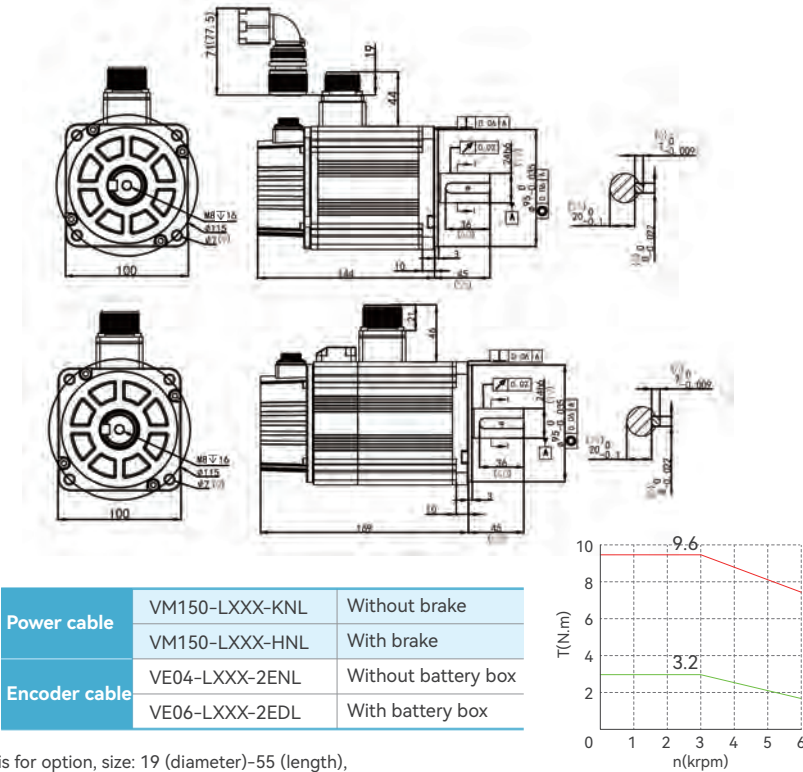


Power cable	VM050-LXXX-OTL	Without brake
	VM050-LXXX-OBTL	With brake
Encoder cable	VE04-LXXX-2SNL	Without battery box
	VE06-LXXX-2SDL	With battery box



V9E-L10□-1R030-□#C

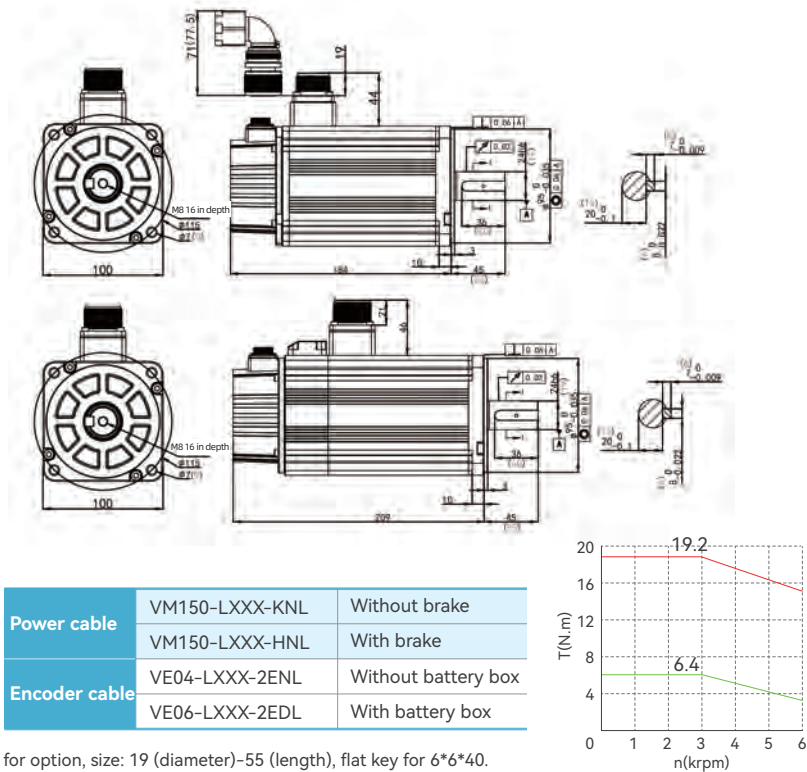
Rated power	W	1000	
Flange size	mm	100	
Rated speed	rpm	3000	
Peak speed	rpm	6000	
Rated torque	N.m	3.2	
Peak torque	N.m	9.6	
Voltage level	V	220/380	
Rated current	A	5.3/3.6	
Peak current	A	15.9/10.8	
Applicable drive	/	5R5A/3R8D	
Rotational inertia	kg·cm ²	2.11	Without brake
	kg·cm ²	2.2	With brake
Load	N	196	Axial
	N	686	Radial



Note: The 1000W model can be equipped with B extension axis for option, size: 19 (diameter)-55 (length), flat key for 6*6*40. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

V9E-L10□-2R030-□#C

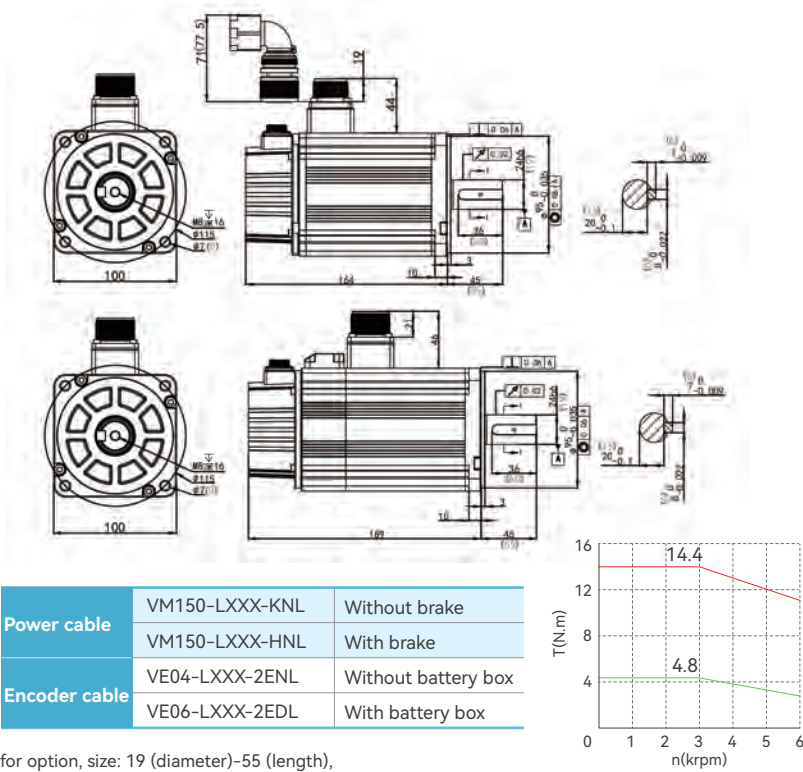
Rated power	W	2000	
Flange size	mm	100	
Rated speed	rpm	3000	
Peak speed	rpm	6000	
Rated torque	N.m	6.4	
Peak torque	N.m	19.2	
Voltage level	V	220/380	
Rated current	A	10.3/5.9	
Peak current	A	30.9/17.7	
Applicable drive	/	9R5A/6R0D	
Rotational inertia	kg·cm ²	3.98	Without brake
	kg·cm ²	4.07	With brake
Load	N	196	Axial
	N	686	Radial



Note: The 2000W model can be equipped with B extension axis for option, size: 19 (diameter)-55 (length), flat key for 6*6*40. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

V9E-L10□-1R530-□#C

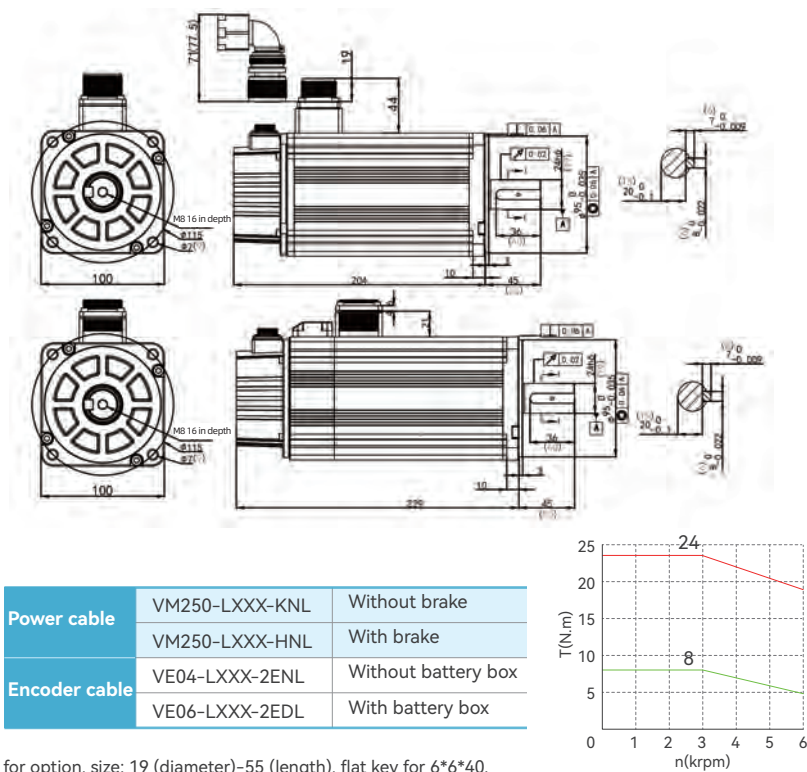
Rated power	W	1500	
Flange size	mm	100	
Rated speed	rpm	3000	
Peak speed	rpm	6000	
Rated torque	N.m	4.8	
Peak torque	N.m	14.4	
Voltage level	V	220/380	
Rated current	A	8/4.6	
Peak current	A	24/13.8	
Applicable drive	/	7R6A/6R0D	
Rotational inertia	kg·cm ²	3.05	Without brake
	kg·cm ²	3.14	With brake
Load	N	196	Axial
	N	686	Radial



Note: The 1500W model can be equipped with B extension axis for option, size: 19 (diameter)-55 (length), flat key for 6*6*40. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

V9E-L10□-2R530-□#C

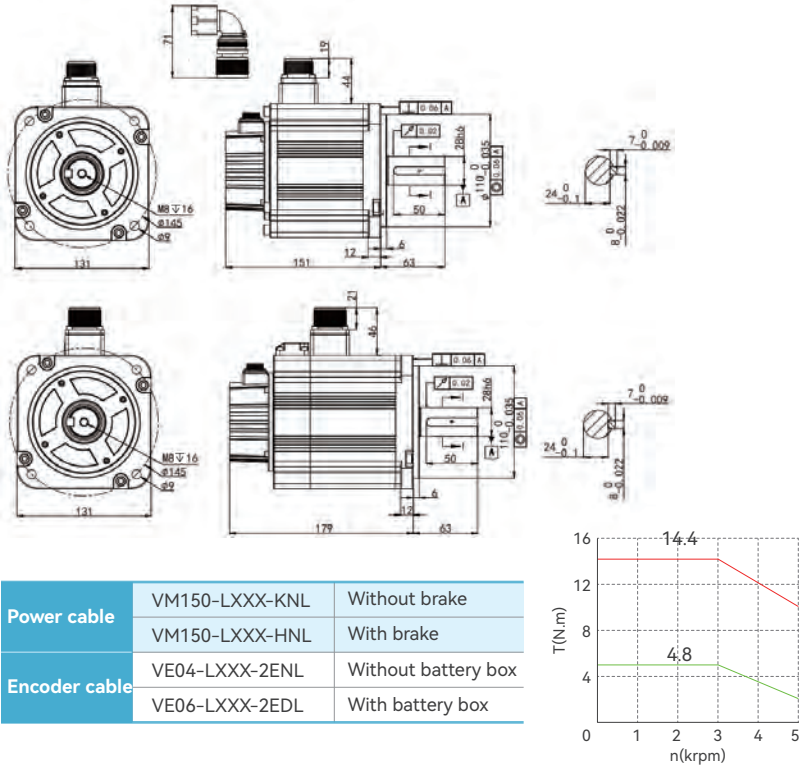
Rated power	W	2500	
Flange size	mm	100	
Rated speed	rpm	3000	
Peak speed	rpm	6000	
Rated torque	N.m	8	
Peak torque	N.m	24	
Voltage level	V	220/380	
Rated current	A	13.2/7.5	*
Peak current	A	39.6/22.5	
Applicable drive	/	120A/8R4D	
Rotational inertia	kg·cm ²	4.92	Without brake
	kg·cm ²	5.01	With brake
Load	N	196	Axial
	N	686	Radial



Note: The 2500W model can be equipped with B extension axis for option, size: 19 (diameter)-55 (length), flat key for 6*6*40. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

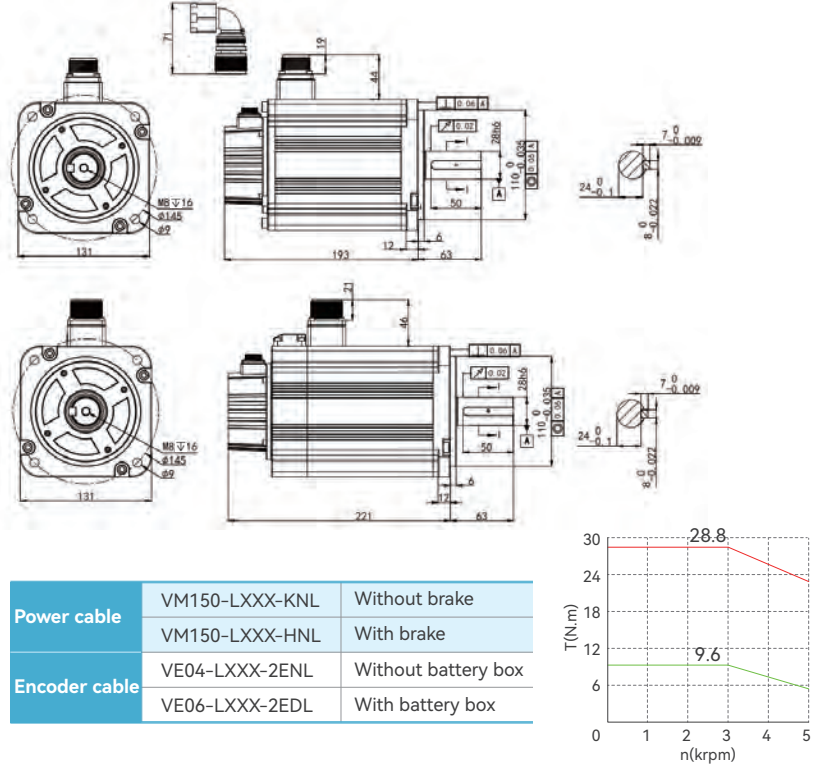
V9E-L13□-1R530-□#C

Rated power	W	1500	
Flange size	mm	130	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	4.8	
Peak torque	N.m	14.4	
Voltage level	V	220/380	
Rated current	A	7.5/5.3	
Peak current	A	22.5/15.9	
Applicable drive	/	7R6A/6R0D	
Rotational inertia	kg·cm ²	4.19	Without brake
	kg·cm ²	6.33	With brake
Load	N	392	Axial
	N	1176	Radial



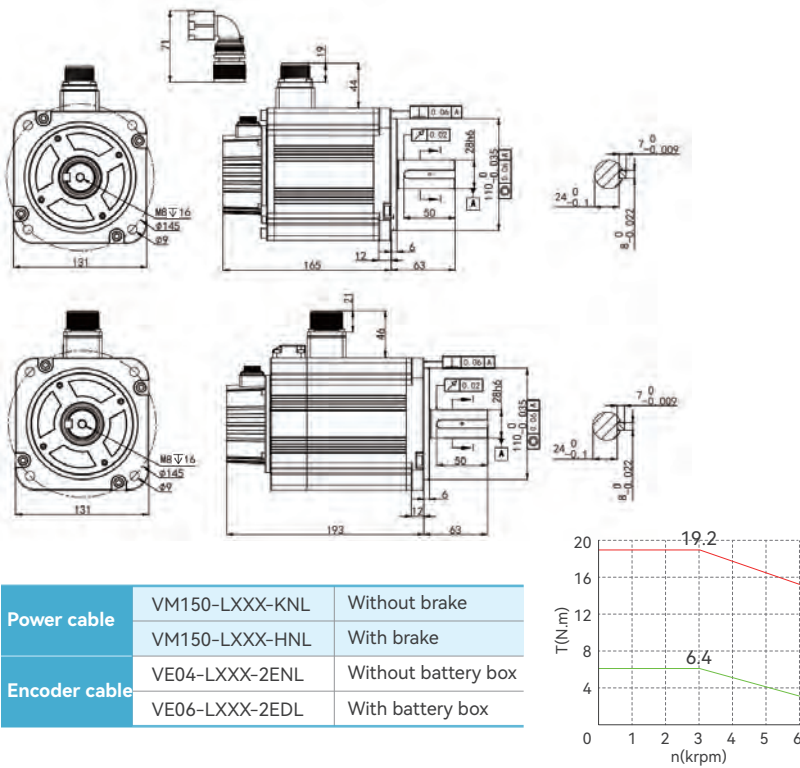
V9E-L13D-3R030-□#C

Rated power	W	3000	
Flange size	mm	130	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	9.6	
Peak torque	N.m	28.8	
Voltage level	V	380	
Rated current	A	8.3	*
Peak current	A	24.9	
Applicable drive	/	8R4D	
Rotational inertia	kg·cm ²	7.75	Without brake
	kg·cm ²	9.89	With brake
Load	N	392	Axial
	N	1176	Radial



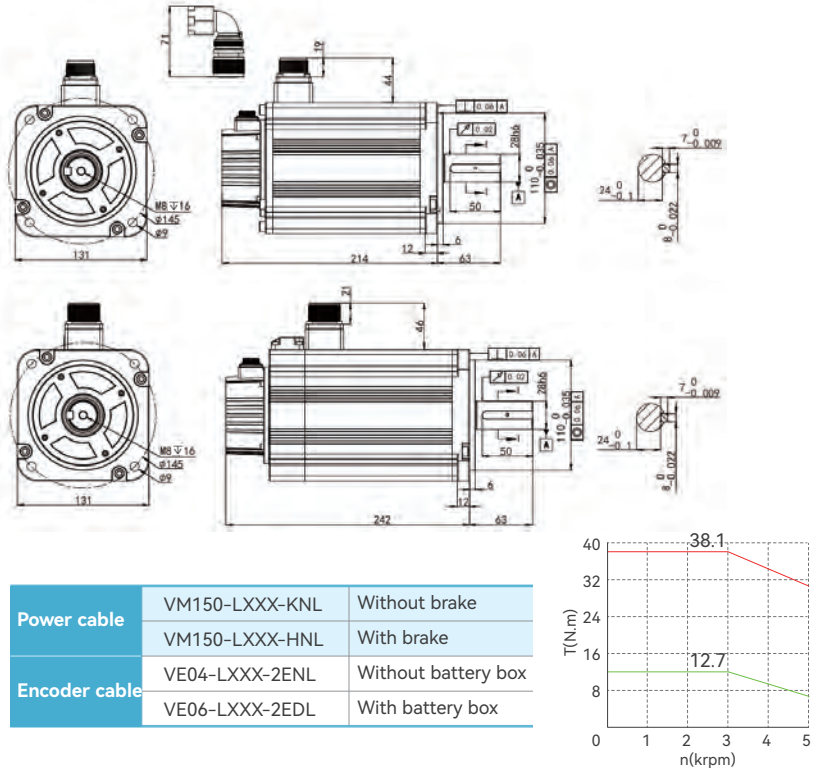
V9E-L13□-2R030-□#C

Rated power	W	2000	
Flange size	mm	130	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	6.4	
Peak torque	N.m	19.2	
Voltage level	V	220/380	
Rated current	A	9.3/5.8	
Peak current	A	27.9/17.4	
Applicable drive	/	9R5A/6R0D	
Rotational inertia	kg·cm ²	4.38	Without brake
	kg·cm ²	6.52	With brake
Load	N	392	Axial
	N	1176	Radial



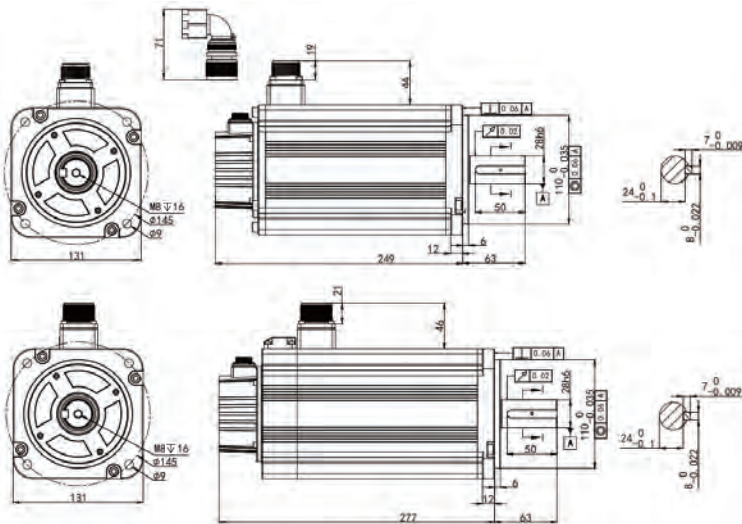
V9E-L13D-4R030-□#C

Rated power	W	4000	
Flange size	mm	130	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	12.7	
Peak torque	N.m	38.1	
Voltage level	V	380	
Rated current	A	11	*
Peak current	A	33	
Applicable drive	/	110D	
Rotational inertia	kg·cm ²	9.52	Without brake
	kg·cm ²	11.66	With brake
Load	N	392	Axial
	N	1176	Radial

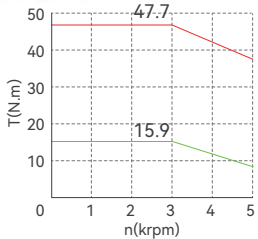


V9E-L13D-5R030-□#C

Rated power	W	5000	
Flange size	mm	130	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	15.9	
Peak torque	N.m	47.7	
Voltage level	V	380	
Rated current	A	16.1	*
Peak current	A	48.3	
Applicable drive	/	170D	
Rotational inertia	kg·cm ²	12.48	Without brake
	kg·cm ²	14.72	With brake
Load	N	392	Axial
	N	1176	Radial



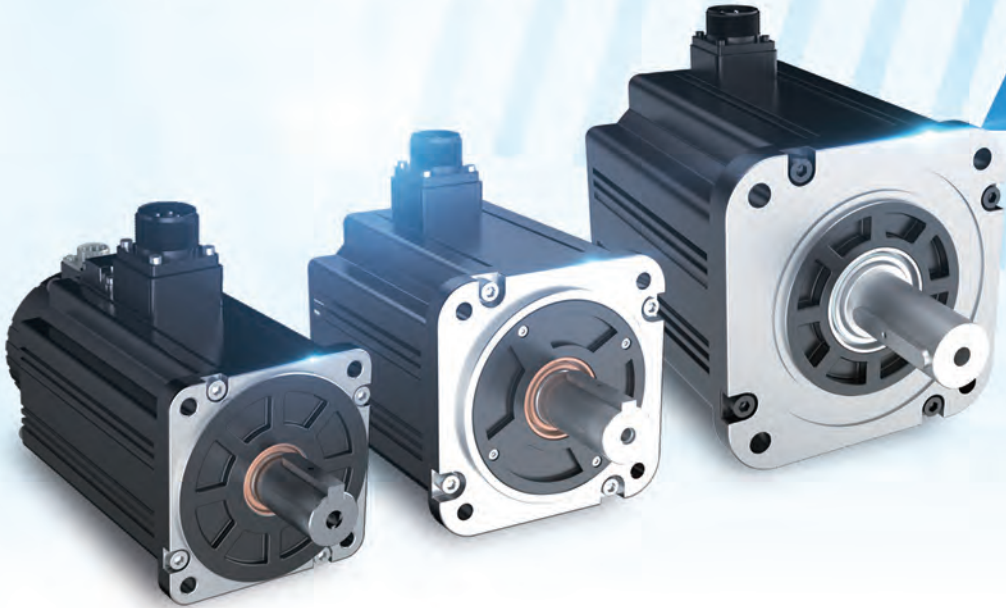
Power cable	VM250-LXXX-KNL	Without brake
	VM250-LXXX-HNL	With brake
Encoder cable	VE04-LXXX-2ENL	Without battery box
	VE06-LXXX-2EDL	With battery box



V9E

Servo Motor

Medium-speed
medium-inertia



Torque range: 4.8~35.8 (N·m)
Rated speed: 2000/3000(rpm)
Max. speed: 4000/5000(rpm)

Applications



Wood machines



Laser cutting



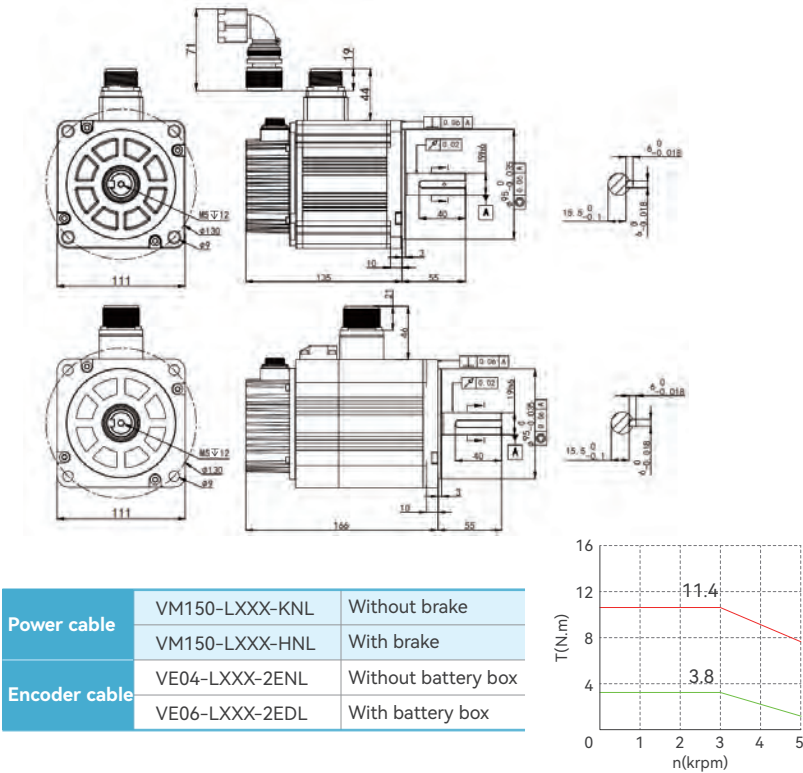
Textile machines



Glass machines

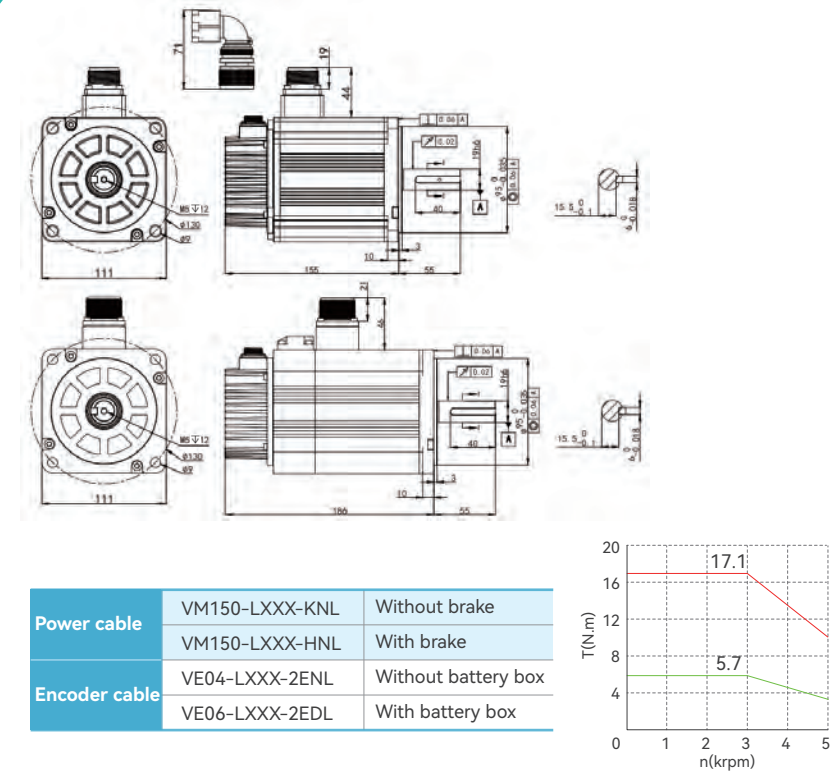
V9E-M11□-1R230-□#C

Rated power	W	1200	
Flange size	mm	110	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	3.8	
Peak torque	N.m	11.4	
Voltage level	V	220/380	
Rated current	A	6.3/3.7	
Peak current	A	18.9/11.1	
Applicable drive	/	7R6A/6R0D	
Rotational inertia	kg·cm ²	4.9	Without brake
	kg·cm ²	5.51	With brake
Load	N	174	Axial
	N	392	Radial



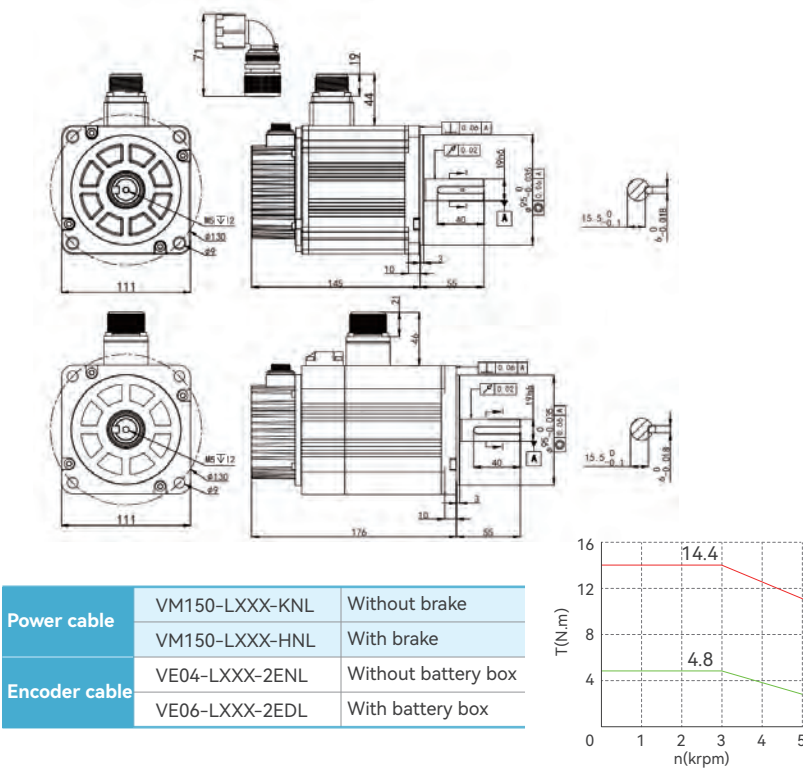
V9E-M11□-1R830-□#C

Rated power	W	1800	
Flange size	mm	110	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	5.7	
Peak torque	N.m	17.1	
Voltage level	V	220/380	
Rated current	A	9.3/5.5	*
Peak current	A	27.9/16.5	
Applicable drive	/	9R5A/6R0D	
Rotational inertia	kg·cm ²	7.3	Without brake
	kg·cm ²	7.91	With brake
Load	N	174	Axial
	N	392	Radial



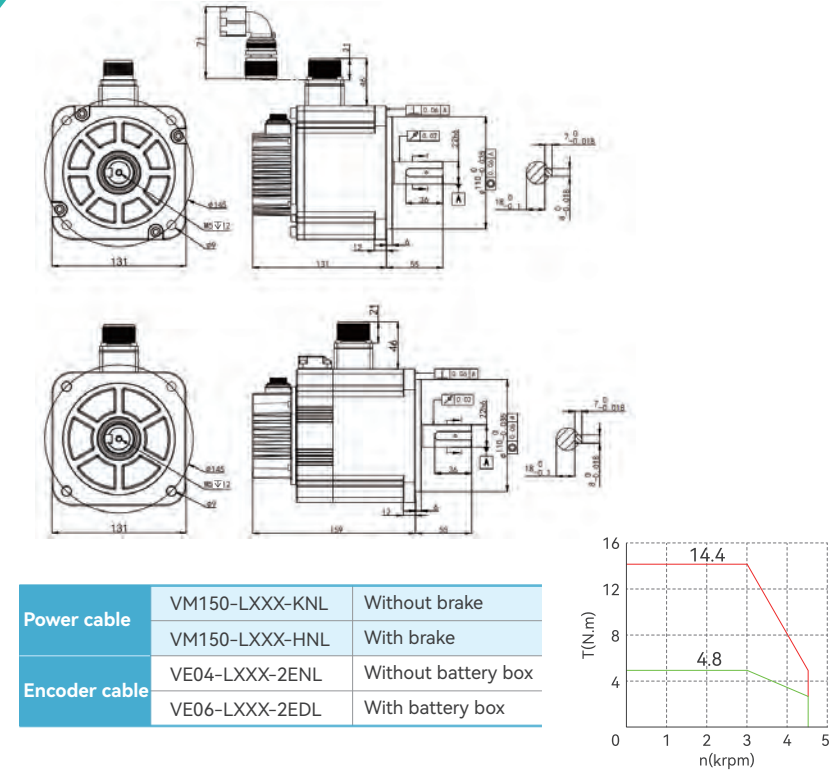
V9E-M11□-1R530-□#C

Rated power	W	1500	
Flange size	mm	110	
Rated speed	rpm	3000	
Peak speed	rpm	5000	
Rated torque	N.m	4.8	
Peak torque	N.m	14.4	
Voltage level	V	220/380	
Rated current	A	7.6/4.5	
Peak current	A	22.8/13.5	
Applicable drive	/	7R6A/6R0D	
Rotational inertia	kg·cm ²	6.1	Without brake
	kg·cm ²	6.7	With brake
Load	N	174	Axial
	N	392	Radial



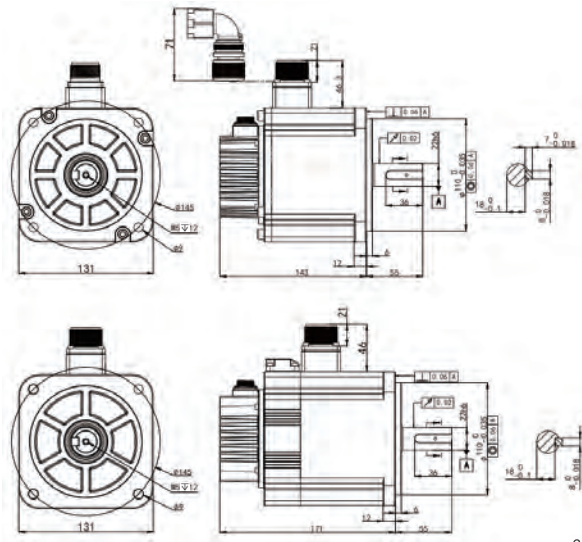
V9E-M13□-1R020-□#C

Rated power	W	1000	
Flange size	mm	130	
Rated speed	rpm	2000	
Peak speed	rpm	4500	
Rated torque	N.m	4.8	
Peak torque	N.m	14.4	
Voltage level	V	220/380	
Rated current	A	4.9/3.5	
Peak current	A	14.7/10.5	
Applicable drive	/	5R5A/3R8D	
Rotational inertia	kg·cm ²	10.51	Without brake
	kg·cm ²	12.65	With brake
Load	N	196	Axial
	N	686	Radial

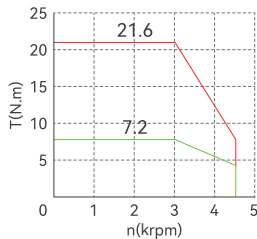


V9E-M13□-1R520-□#C

Rated power	W	1500	
Flange size	mm	130	
Rated speed	rpm	2000	
Peak speed	rpm	4500	
Rated torque	N.m	7.2	
Peak torque	N.m	21.6	
Voltage level	V	220/380	
Rated current	A	7.5/5.4	*
Peak current	A	22.5/16.2	
Applicable drive	/	7R6A/6R0D	
Rotational inertia	kg·cm ²	14.85	Without brake
	kg·cm ²	16.99	With brake
Load	N	196	Axial
	N	686	Radial

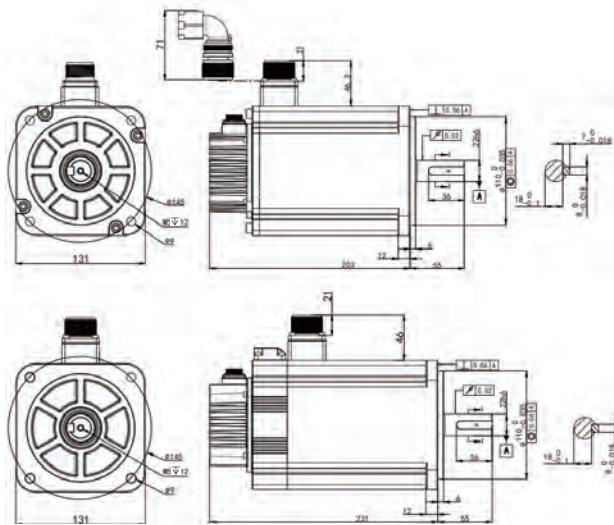


Power cable	VM150-LXXX-KNL	Without brake
	VM150-LXXX-HNL	With brake
Encoder cable	VE04-LXXX-2ENL	Without battery box
	VE06-LXXX-2EDL	With battery box

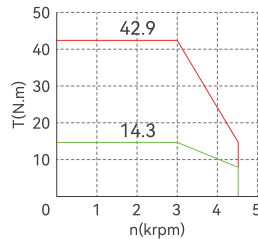


V9E-M13□-3R020-□#C

Rated power	W	3000	
Flange size	mm	130	
Rated speed	rpm	2000	
Peak speed	rpm	4500	
Rated torque	N.m	14.3	
Peak torque	N.m	42.9	
Voltage level	V	220/380	
Rated current	A	15.5/8.3	
Peak current	A	46.5/24.9	
Applicable drive	/	160A/8R4D	
Rotational inertia	kg·cm ²	36.38	Without brake
	kg·cm ²	38.52	With brake
Load	N	196	Axial
	N	686	Radial

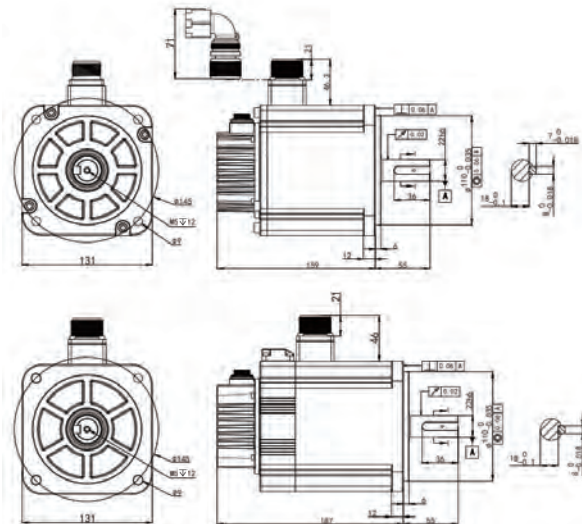


Power cable	VM250-LXXX-KNL	Without brake
	VM250-LXXX-HNL	With brake
Encoder cable	VE04-LXXX-2ENL	Without battery box
	VE06-LXXX-2EDL	With battery box

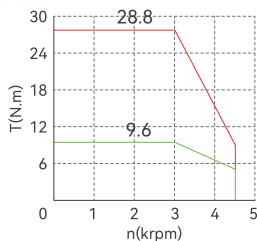


V9E-M13□-2R020-□#C

Rated power	W	2000	
Flange size	mm	130	
Rated speed	rpm	2000	
Peak speed	rpm	4500	
Rated torque	N.m	9.6	
Peak torque	N.m	28.8	
Voltage level	V	220/380	
Rated current	A	9.4/5.5	
Peak current	A	28.2/16.5	
Applicable drive	/	9R5A/6R0D	
Rotational inertia	kg·cm ²	20.63	Without brake
	kg·cm ²	22.77	With brake
Load	N	196	Axial
	N	686	Radial

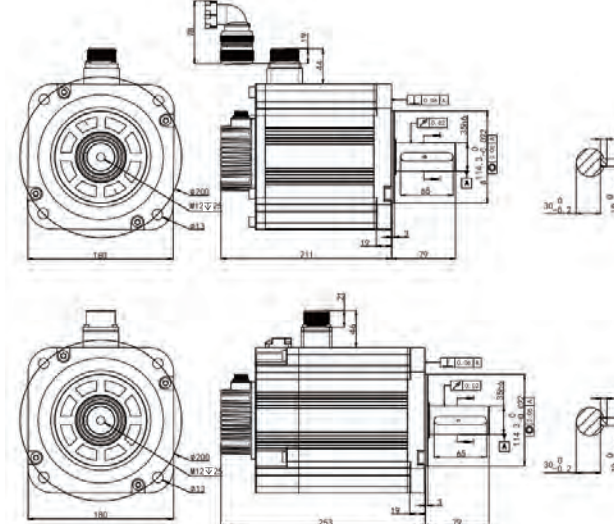


Power cable	VM150-LXXX-KNL	Without brake
	VM150-LXXX-HNL	With brake
Encoder cable	VE04-LXXX-2ENL	Without battery box
	VE06-LXXX-2EDL	With battery box

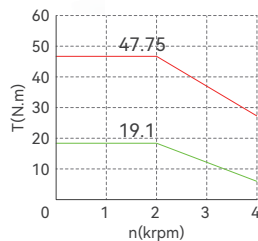


V9E-M18D-4R020-□#C

Rated power	W	4000	
Flange size	mm	180	
Rated speed	rpm	2000	
Peak speed	rpm	4000	
Rated torque	N.m	19.1	
Peak torque	N.m	47.75	
Voltage level	V	380	
Rated current	A	14.7	
Peak current	A	36.8	
Applicable drive	/	170D	
Rotational inertia	kg·cm ²	68.9	Without brake
	kg·cm ²	75.39	With brake
Load	N	490	Axial
	N	1470	Radial

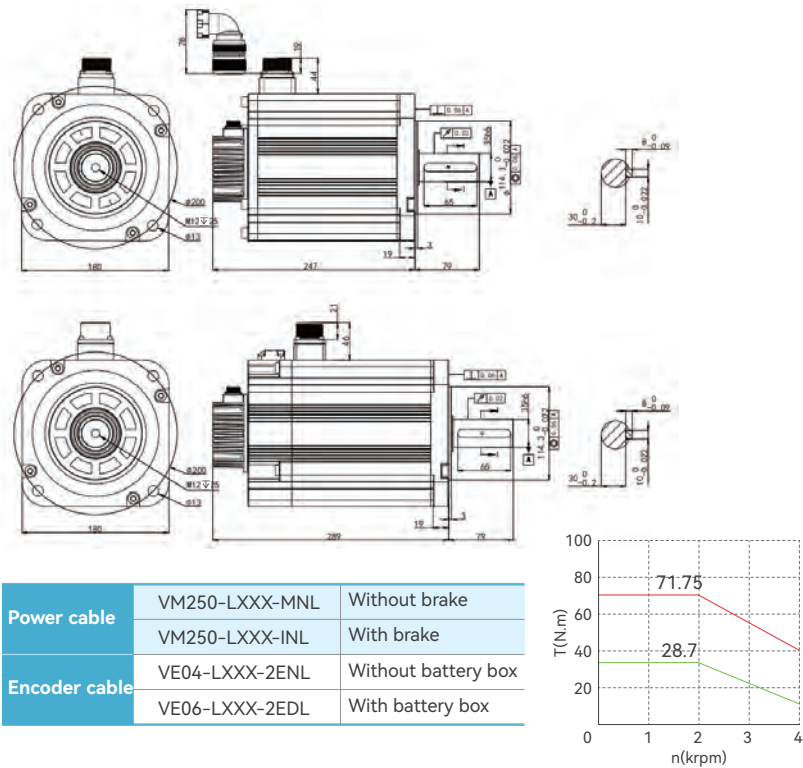


Power cable	VM250-LXXX-MNL	Without brake
	VM250-LXXX-INL	With brake
Encoder cable	VE04-LXXX-2ENL	Without battery box
	VE06-LXXX-2EDL	With battery box



V9E-M18D-6R020-□#C

Rated power	W	6000	
Flange size	mm	180	
Rated speed	rpm	2000	
Peak speed	rpm	4000	
Rated torque	N.m	28.7	
Peak torque	N.m	71.75	
Voltage level	V	380	
Rated current	A	24	
Peak current	A	53	
Applicable drive	/	240D	
Rotational inertia	kg·cm ²	110.11	Without brake
	kg·cm ²	116.6	With brake
Load	N	490	Axial
	N	1470	Radial



V9E

Servo Motor

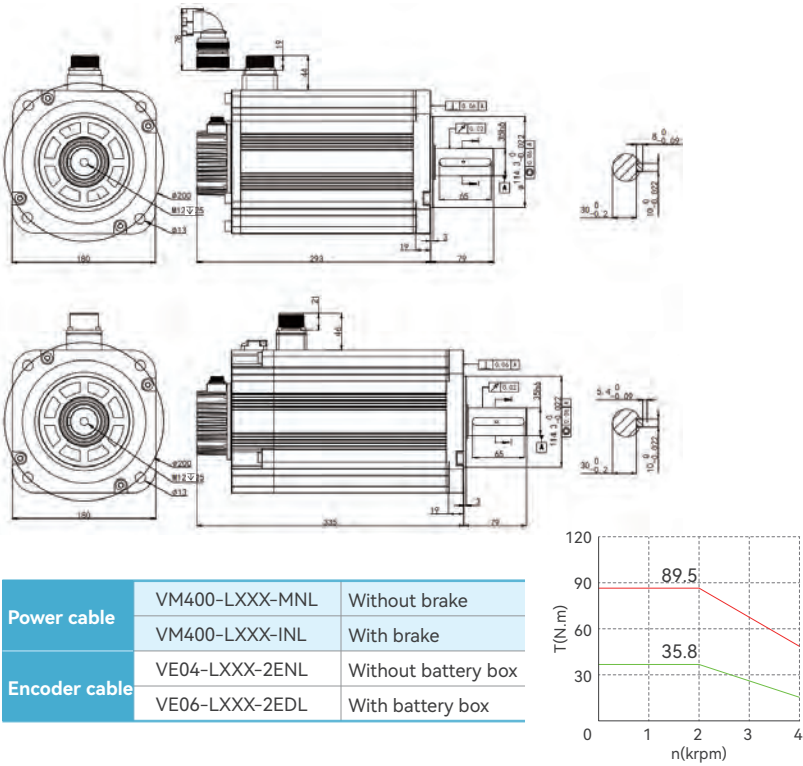


Medium-speed
large-inertia

Torque range: 5.4~47.8 (N·m)
Rated speed: 1500(rpm)
Max. speed: 3000/4000(rpm)

V9E-M18D-7R520-□#C

Rated power	W	7500	
Flange size	mm	180	
Rated speed	rpm	2000	
Peak speed	rpm	4000	
Rated torque	N.m	35.8	
Peak torque	N.m	89.5	
Voltage level	V	380	
Rated current	A	24.7	
Peak current	A	61.75	
Applicable drive	/	300D	
Rotational inertia	kg·cm ²	156.6	Without brake
	kg·cm ²	163.09	With brake
Load	N	490	Axial
	N	1470	Radial



Applications



Blenders



Spring machines



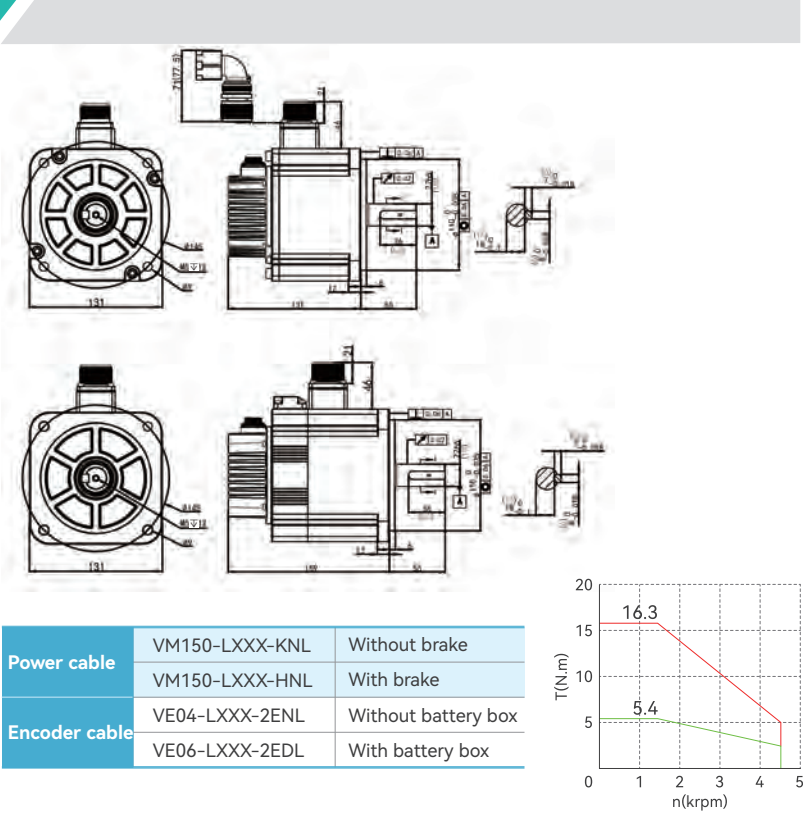
Machine tools



Plate shears

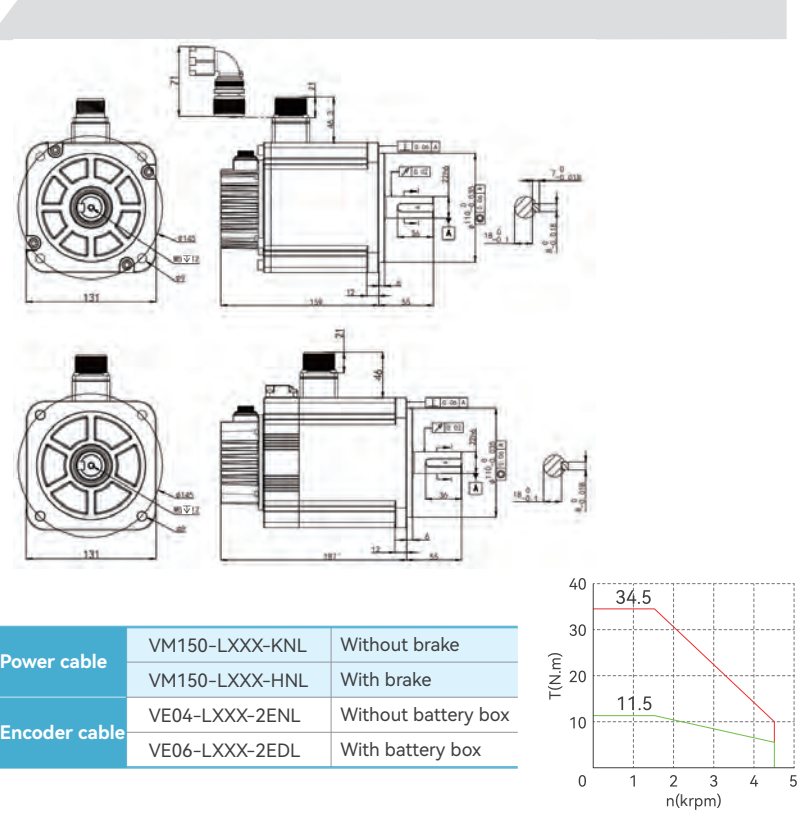
V9E-M13- -R8515- -#C

Rated power	W	850	
Flange size	mm	130	
Rated speed	rpm	1500	
Peak speed	rpm	4500	
Rated torque	N.m	5.4	
Peak torque	N.m	16.3	
Voltage level	V	220/380	
Rated current	A	5.4/3.8	
Peak current	A	16.2/11.4	
Applicable drive	/	5R5A/3R8D	
Rotational inertia	kg·cm ²	10.51	Without brake
	kg·cm ²	12.65	With brake
Load	N	196	Axial
	N	686	Radial



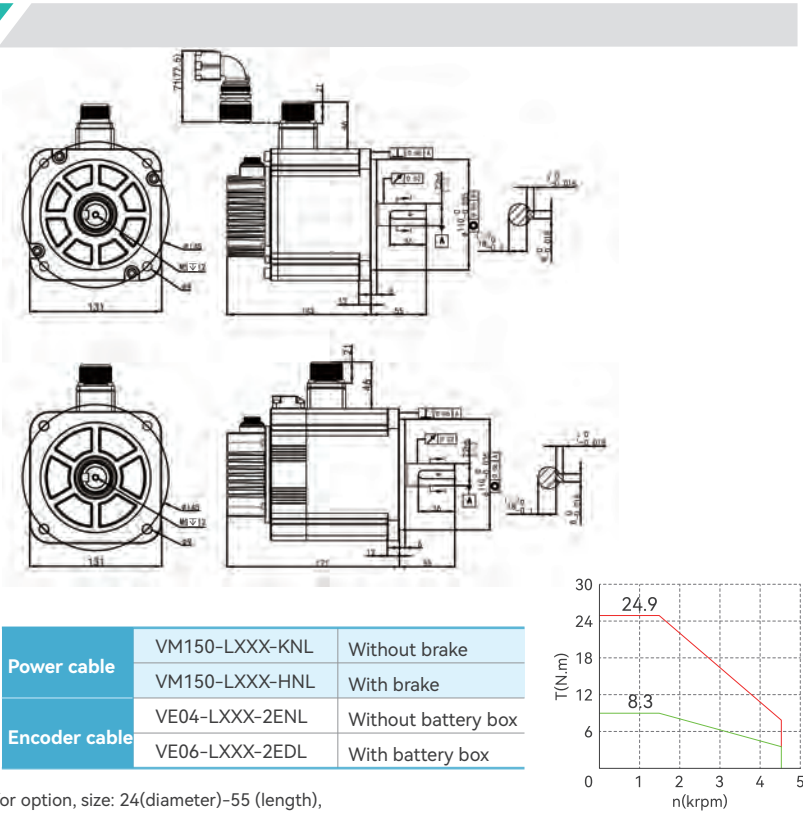
V9E-M13- -1R815- -#C

Rated power	W	1800	
Flange size	mm	130	
Rated speed	rpm	1500	
Peak speed	rpm	4500	
Rated torque	N.m	11.5	
Peak torque	N.m	34.5	
Voltage level	V	220/380	
Rated current	A	11.8/8.2	
Peak current	A	35.4/24.6	
Applicable drive	/	120A/8R4D	
Rotational inertia	kg·cm ²	20.63	Without brake
	kg·cm ²	22.77	With brake
Load	N	196	Axial
	N	686	Radial



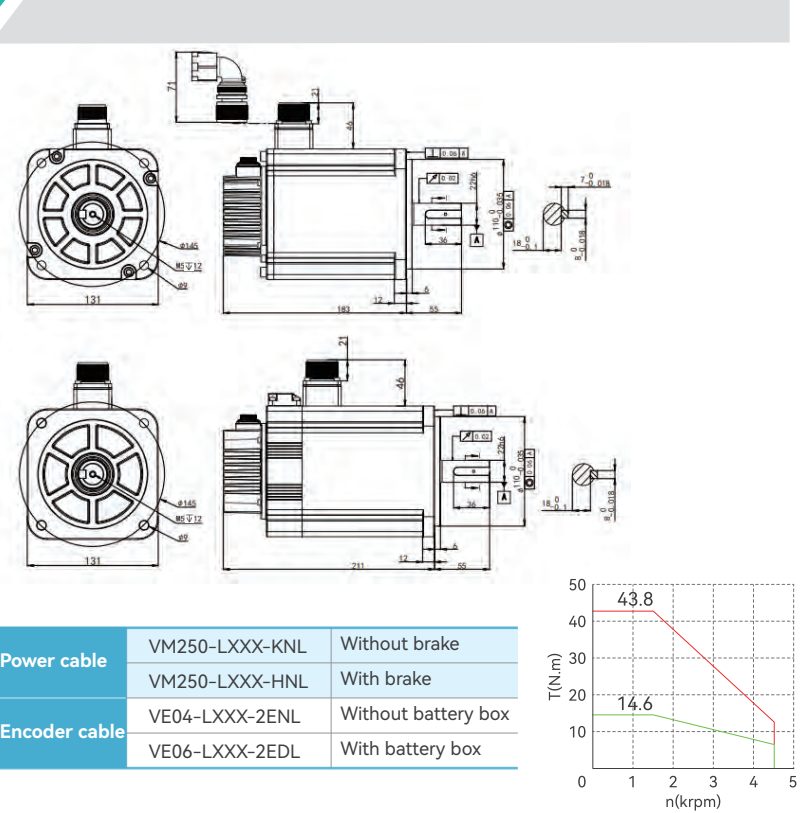
V9E-M13- -1R315- -#C

Rated power	W	1300	
Flange size	mm	130	
Rated speed	rpm	1500	
Peak speed	rpm	4500	
Rated torque	N.m	8.3	
Peak torque	N.m	24.9	
Voltage level	V	220/380	
Rated current	A	9.2/5.9	
Peak current	A	27.6/17.7	
Applicable drive	/	9R5A/6R0D	
Rotational inertia	kg·cm ²	14.85	Without brake
	kg·cm ²	16.99	With brake
Load	N	196	Axial
	N	686	Radial



V9E-M13- -2R315- -#C

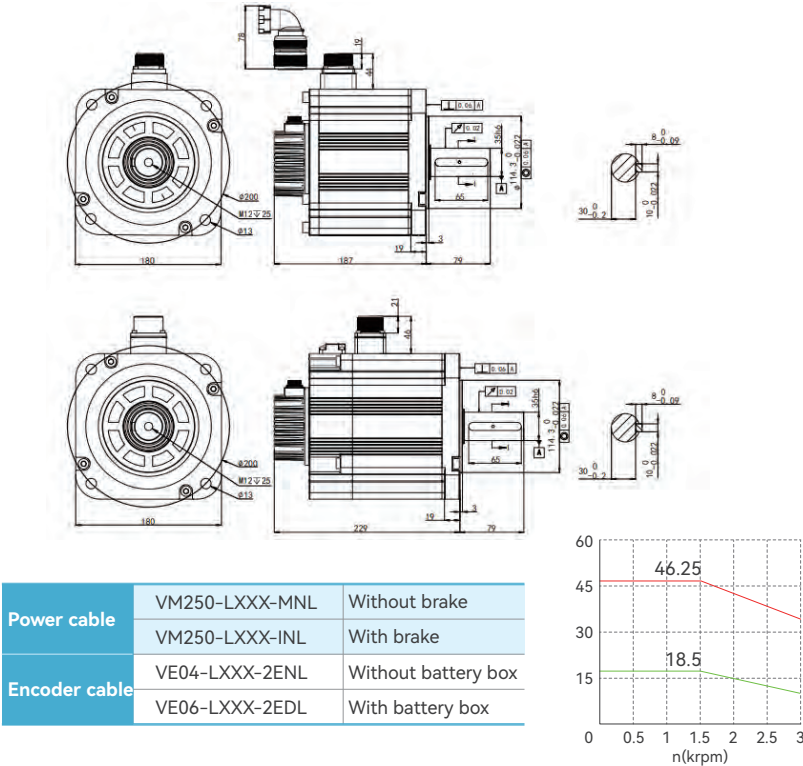
Rated power	W	2300	
Flange size	mm	130	
Rated speed	rpm	1500	
Peak speed	rpm	4500	
Rated torque	N.m	14.6	
Peak torque	N.m	43.8	
Voltage level	V	220/380	
Rated current	A	15.8/8.2	
Peak current	A	47.7/24.6	
Applicable drive	/	160A/8R4D	
Rotational inertia	kg·cm ²	29.27	Without brake
	kg·cm ²	31.31	With brake
Load	N	196	Axial
	N	686	Radial



Note: The 1300W model can be equipped with B extension axis for option, size: 24(diameter)-55 (length), flat key for 8*7*36. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

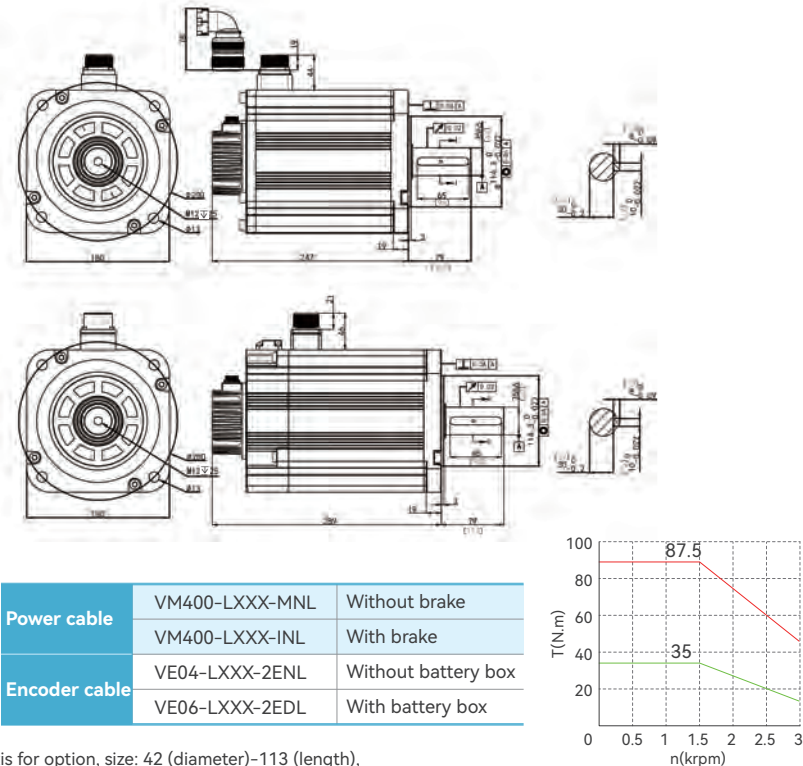
V9E-M18-2R915-#C

Rated power	W	2900	
Flange size	mm	180	
Rated speed	rpm	1500	
Peak speed	rpm	3000	
Rated torque	N.m	18.5	
Peak torque	N.m	46.25	
Voltage level	V	380	
Rated current	A	12/8.3	
Peak current	A	36/20.75	
Applicable drive	/	120A/8R4D	
Rotational inertia	kg·cm ²	49.56	Without brake
	kg·cm ²	56.05	With brake
Load	N	490	Axial
	N	1470	Radial



V9E-M18D-5R515-#C

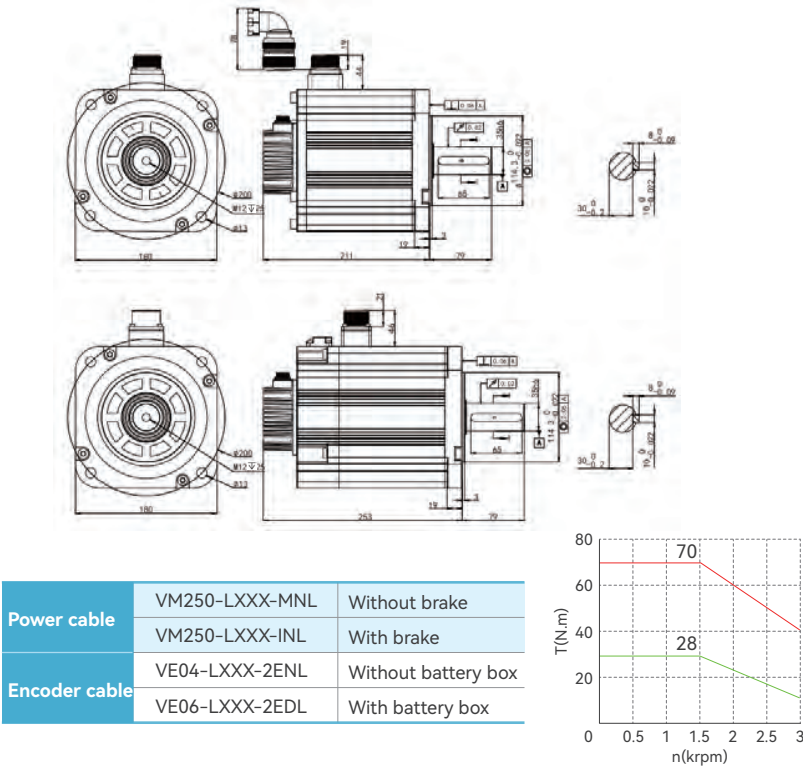
Rated power	W	5500	
Flange size	mm	180	
Rated speed	rpm	1500	
Peak speed	rpm	3000	
Rated torque	N.m	35	
Peak torque	N.m	87.5	
Voltage level	V	380	
Rated current	A	15	
Peak current	A	3.5	
Applicable drive	/	170D	
Rotational inertia	kg·cm ²	110.11	Without brake
	kg·cm ²	116.6	With brake
Load	N	490	Axial
	N	1470	Radial



Note: The 5500W model can be equipped with B extension axis for option, size: 42 (diameter)-113 (length), flat key for 12*10*96. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

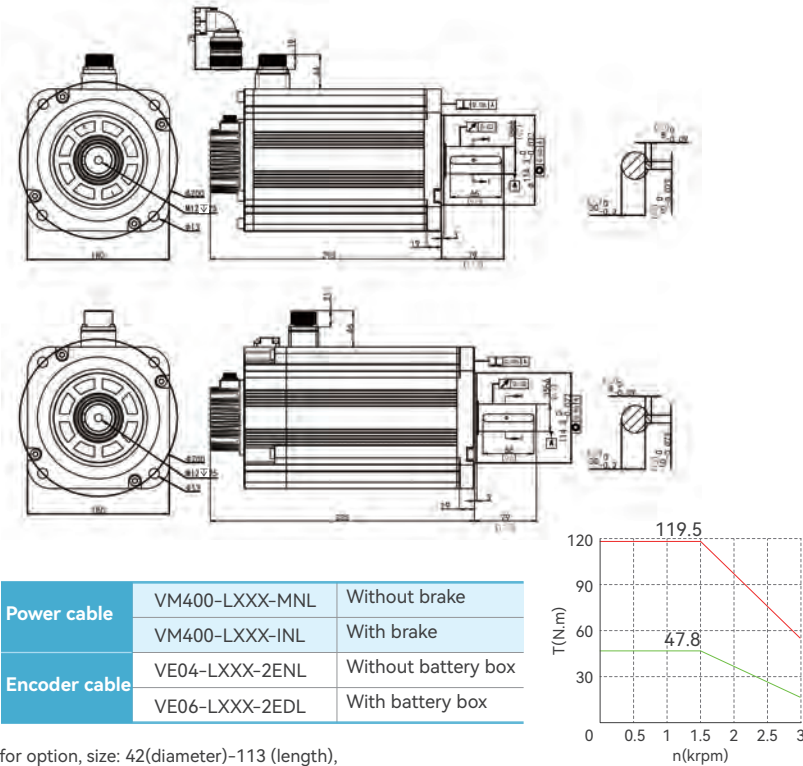
V9E-M18D-4R415-#C

Rated power	W	4400	
Flange size	mm	180	
Rated speed	rpm	1500	
Peak speed	rpm	3000	
Rated torque	N.m	28	
Peak torque	N.m	70	
Voltage level	V	380	
Rated current	A	10.9	
Peak current	A	27.25	
Applicable drive	/	110D	
Rotational inertia	kg·cm ²	68.9	Without brake
	kg·cm ²	75.39	With brake
Load	N	490	Axial
	N	1470	Radial



V9E-M18D-7R515-#C

Rated power	W	7500	
Flange size	mm	180	
Rated speed	rpm	1500	
Peak speed	rpm	3000	
Rated torque	N.m	47.8	
Peak torque	N.m	119.5	
Voltage level	V	380	
Rated current	A	17	
Peak current	A	42.5	
Applicable drive	/	240D	
Rotational inertia	kg·cm ²	156.6	Without brake
	kg·cm ²	163.09	With brake
Load	N	490	Axial
	N	1470	Radial



Note: The 7500W model can be equipped with B extension axis for option, size: 42(diameter)-113 (length), flat key for 12*10*96. The sizes in yellow are standard in the figure above, and the machine cabinet is differentiated by the addition of B at the end.

Encoder Cable

VE04-LXXX-2SNL			V9E 40/60/80mm flange, without battery box
VE06-LXXX-2SDL			V9E 40/60/80mm flange, with battery box
VE04-LXXX-2ANL			V9E 100~180mm flange, 9*aviation plug (without C suffix), without battery box
VE06-LXXX-2ADL			V9E 100~180mm flange, 9*aviation plug (without C suffix), with battery box
VE04-LXXX-2ENL			V9E 100~180mm flange, 10*aviation plug (with C suffix), without battery box
VE06-LXXX-2EDL			V9E 100~180mm flange, 10*aviation plug (with C suffix), with battery box

Power Cable

VM030-LXXX-UTL			V9E 40mm flange, without brake
VM030-LXXX-UBTL			V9E 40mm flange, with brake
VM050-LXXX-OTL			V9E 60/80mm flange, without brake
VM050-LXXX-OBTL			V9E 60/80mm flange, with brake
VM150-LXXX-KNL			V9E 100~130mm flange, without brake ≤11A
VM150-LXXX-HNL			V9E 100~130mm flange, with brake ≤11A
VM250-LXXX-KNL			V9E 100~130mm flange, without brake 11A < ≤18A

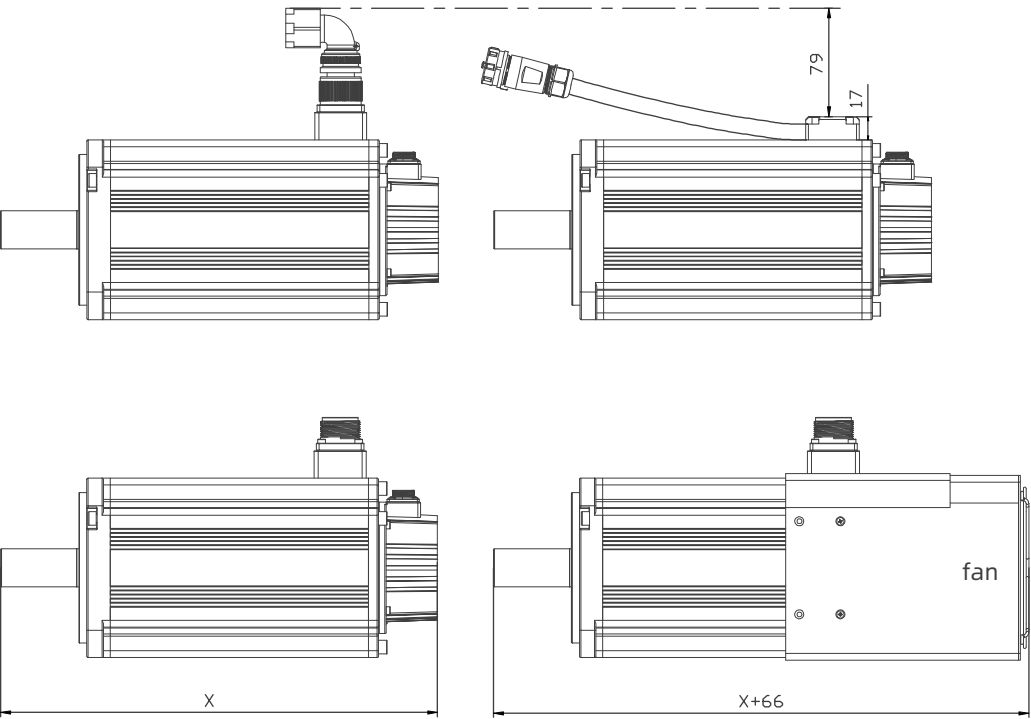
Power Cable

VM250-LXXX-HNL			V9E 100~130mm flange, with brake 11A < ≤18A
VM250-LXXX-MNL			V9E 180mm flange, without brake 11A < ≤18A
VM250-LXXX-INL			V9E 180mm flange, with brake 11A < ≤18A
VM400-LXXX-MNL			V9E 180mm flange, without brake 18A < ≤30A
VM400-LXXX-INL			V9E 180mm flange, with brake 18A < ≤30A

Brake

Flange(mm)	40	60	80	100	110	130	180
Specifications							
Rated voltage V	DC24V±10%	DC24V±10%	DC24V±10%	DC24V±10%	DC24V±10%	DC24V±10%	DC24V±10%
Rated power W	6.1	7.6	8.5	17.6	19.5	23	50
Static torque N.m	≥0.38	≥1.5	≥3.8	≥8.0	≥10	≥16	≥50
Engage time ms	< 50	< 60	< 100	< 85	< 80	< 80	< 80
Release time ms	< 20	< 20	< 80	< 30	< 40	< 40	< 40
Apply voltage V	< 19.2	< 18	< 19.2	< 16.8	< 18	< 18	< 19.2
Release voltage V	> 0.5	> 1.5	> 1.5	> 1.0	> 1.5	> 0.5	> 1.5
Rotational inertia	231g.mm ²	117g.mm ²	93.47g.cm ²	93.47g.cm ²	562g.cm ²	1900g.cm ²	6201g.cm ²

Model Selection



Optional flat aviation connector:

Application scenario:

Compact device size/compact motor mounting space

Advantage:

Lower the overall height of aerial insertion to 79mm to effectively reduce mounting interference.

Optional cooling fan:

Application scenario:

High ambient temperature & airtight, poor cooling conditions

Advantage:

Wide range of ambient temperatures to effectively protect the motor from overheating, resulting in use/lifetime damages.

Note: If the above options are required, please contact our sales staff or motor product engineers for any inquiries or orders.

Product Advantages



R&D Capacity

R&D and technology platform

- > Consolidating a dynamic force of top-tier professionals and technical experts in domestic industrial control, our R&D team represents 37.16% of our workforce, with 74.62% of our technical staff boasting bachelor's degrees or higher.
- > Guided by philosophy of "Innovate with technology and strive for excellence," VEICHI is deeply customer-centric by providing stable and reliable products and technologies designed to the evolving needs of our clients.
- > Investing 10% of our revenue into R&D, VEICHI has crafted advanced labs for EMC, safety, reliability, and performance testing to ensure product quality.
- > In-depth cooperation with many famous universities and research institutions in China has been established and "Jiangsu Postdoctoral Innovation Practice Base" and "Jiangsu Postgraduate Workstation" are set up successively.

Intelligent automation production

- > Digitally driven from inception to production, VEICHI boasts an annual capacity of 914,600 units with streamlined efficiency.
- > 5 imported SMT placement lines, 5 automated coating lines, 4 DIP test lines, a robotic arm-equipped automated line, and 12 production lines are equipped with the latest intelligent manufacturing tools.
- > All of the product checks are carried out automatically by the management mode of 3 (tri-inspection system)+ 1 (proportional inspection) during the whole process for standard performance.
- > Three major production management system WMS, MES and ERP together ensure that the unique code of each product is traceable in the system to manage product quality.

Encoder:

- Excellent vibration resistance: magnetic coding
- Excellent interference resistance: optical coding
- Power-down position storage: multi-turn

Brake:

Purpose: To keep the rotor position of the motor from rotating after power loss, but it's invalid during forced braking;

Power: It is prohibited to share the power supply with other appliances to prevent the power supply voltage/current from decreasing and causing the brake mis-operation when other appliances are working;

Oil seal :

Purpose: Protect shaft extension

Note: Derate 10% to use if there is a oil seal on the motor (Oil seal can be selected according to the installation environment)

T-n curve:

Continuous working zone: This means the states in which the motor can be operated safely and continuously. The actual torque must be within this zone.

Short-term working zone: This means the states in which the motor can run for a short time when the actual torque is greater than the rated torque

Fan:

Optional:

- ① For enclosed environments where the ambient temperature is high and there is no air circulation.
- ② For occasions where the motor temperature rise will affect the precision of the equipment greatly.

AC 220V fan (used with air duct) is selected by default. And for other voltage levels, please ask VEICHI for special requirements;

Flat key:

Purpose: Transmit the torque from the motor shaft to the actuator.

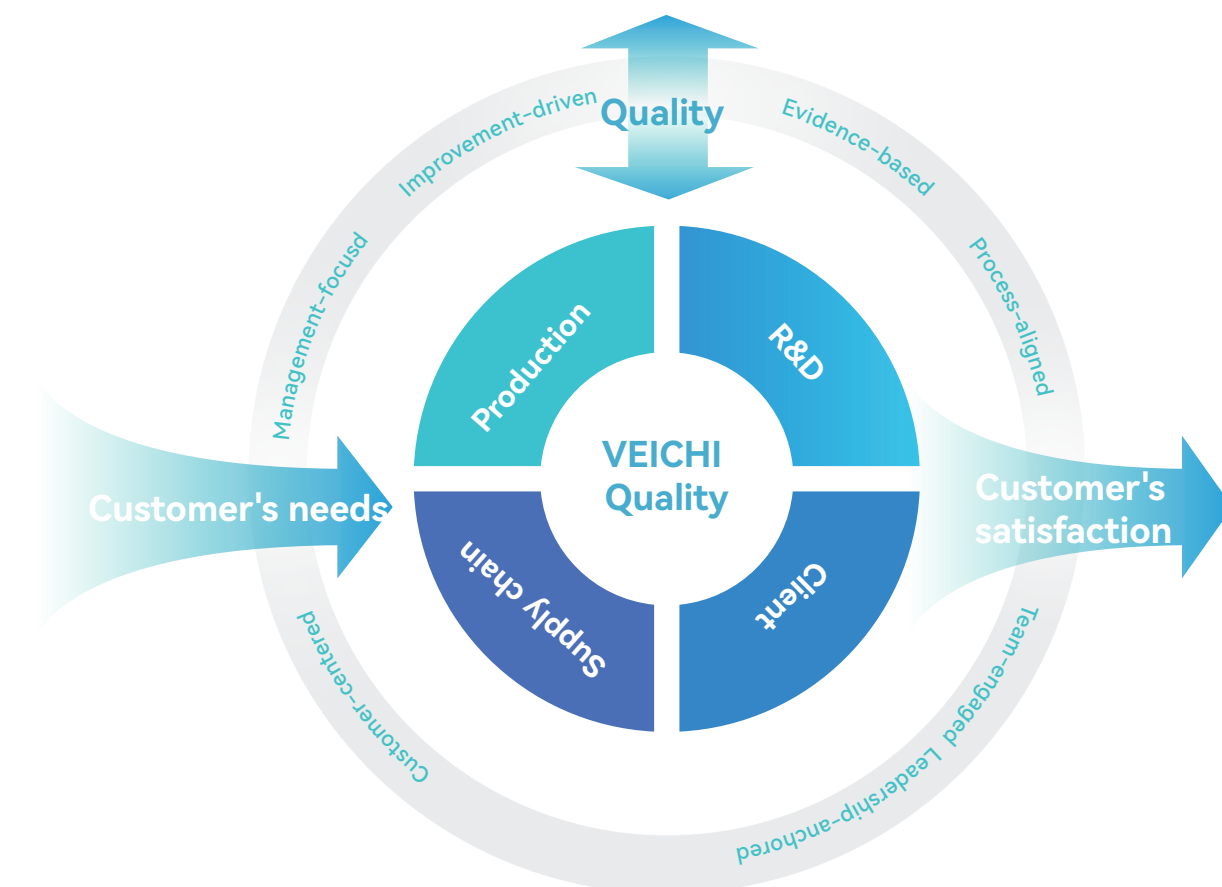
Note: The flat key should be dismantled with the screws. Please do not hammer on the shaft.

Quality

Upholding a steadfast commitment to quality, we integrate the highest global standards across every facet of our operations, from procurement to product development and production.

Every one of our products is distinguished by a unique product code, enabling seamless traceability through our advanced product management system.

Quality Management System Based on Seven Principles



Service and Support

