

VEICHI

SD900 Series Advanced Universal Servo System



VEICHI

Suzhou Veichi Electric Co.,Ltd.

No.1888 Songwei Road, Guoxiang Street, Wuzhong Economic and Technological Development Zone, Suzhou, Jiangsu Province, China.

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

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

WhatsApp:+86-138 2881 8903 <https://www.veichi.org>



Official Website

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Stock Code: 688698

About Us



Veichi Electric (Stock Code: 688698) is a leading high-tech enterprise specializing in R&D, production and sales of industrial automation products. Headquartered in Suzhou with R&D centers in Shenzhen and Xi'an and a subsidiary in India, we serve the global markets with competitive and reliable products and system solutions.

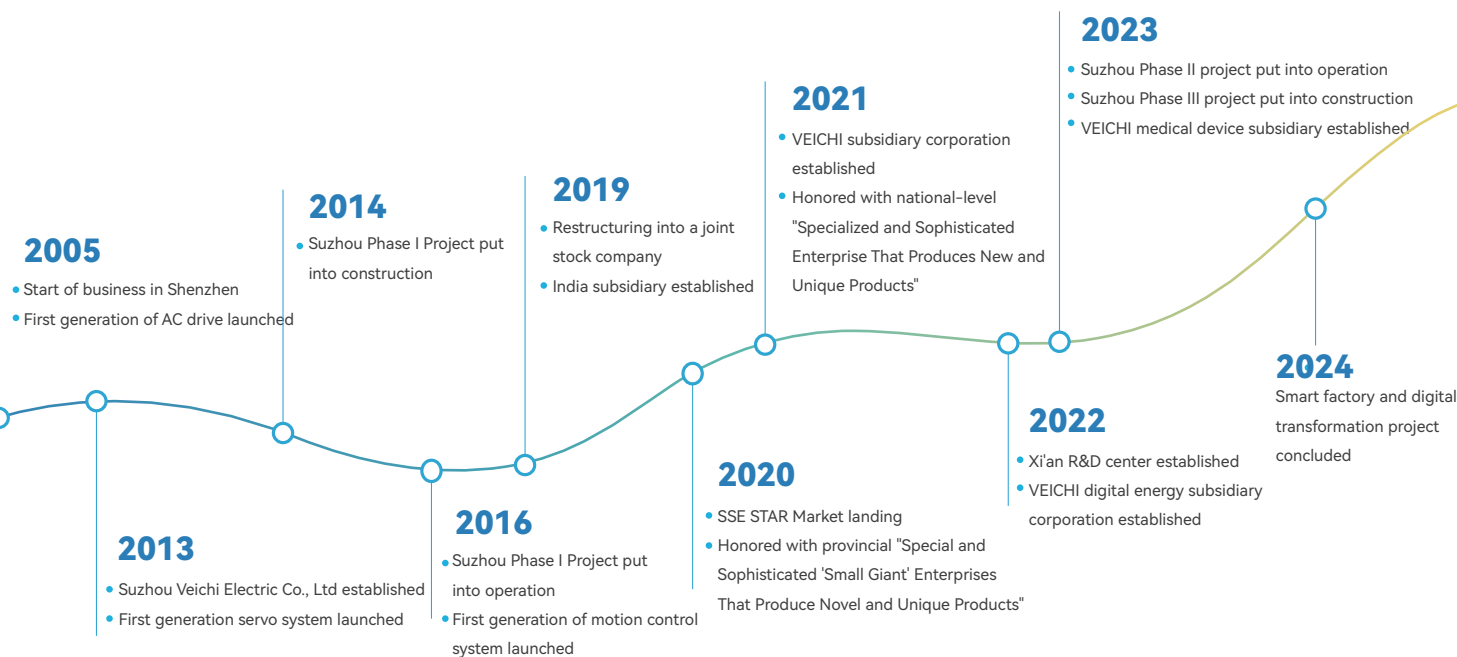
The comprehensive product portfolio – spanning AC drives, servo systems, control systems and digital energy solutions, covers all industrial automation layers—management, control, drive, and execution, which is transforming operations in heavy industries, advanced manufacturing, renewable energy, and medical equipment through smart, scenario-based implementations. Moreover, Veichi is also expanding into robotics, new energy and medical fields with innovative products like coreless motors, frameless motors, PV energy storage inverters and surgical power systems.

With 214 patents (including 56 invention patents) as of December 31, 2024, its core technological competencies encompasses: Advanced Motor Control-Comprehensive solutions including vector control, HF injection, auto-tuning, and high-speed flux-weakening control for both PMSMs and AMs, Next-Generation Power Electronics-Cutting-edge SiC applications and robust IGBT drive protection systems, Intelligent Operation-Innovative fly track technology for smooth

motor startup and reliable V/F scalar control and Thermal Management-High-density water cooling layout solutions for optimal system performance.

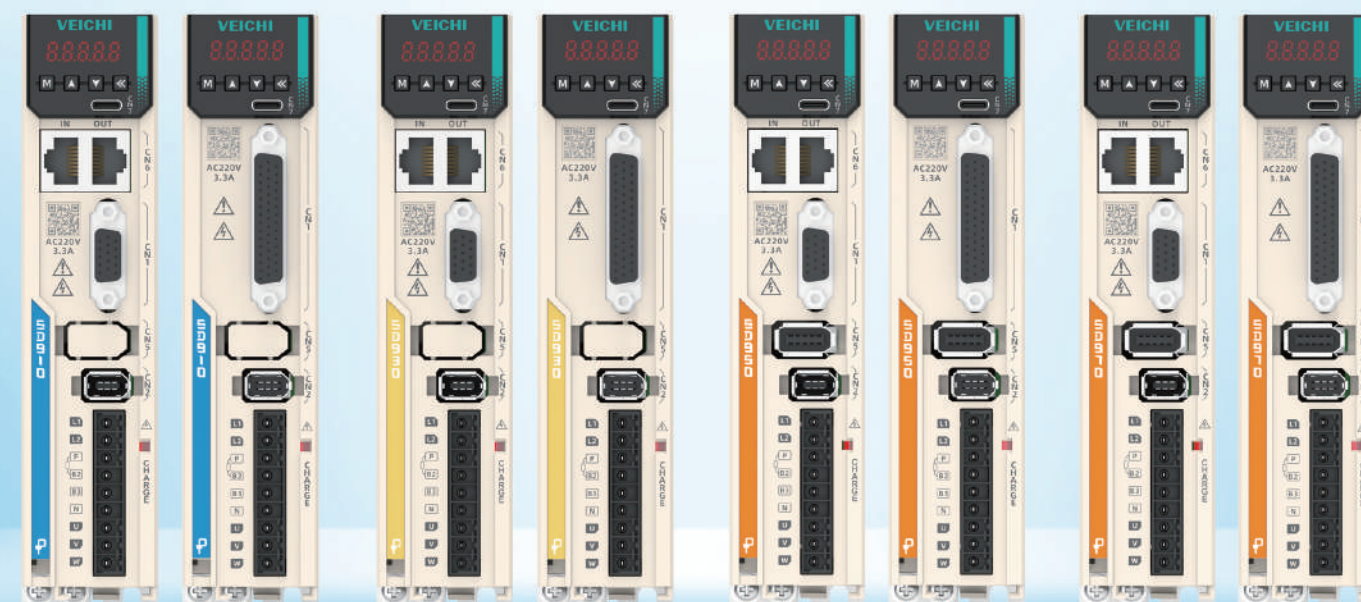
These breakthroughs have garnered the company prestigious accreditations from national and provincial authorities, including: Third Batch National Specialized, Sophisticated, Distinctive and Innovative 'Little Giant' Enterprise, National High-Tech Enterprise, Jiangsu Provincial Engineering Technology Research Center, Jiangsu Provincial Enterprise Technology Center, and Jiangsu Industrial Internet Development Demonstration Enterprise (Benchmark Factory Category).

Moving forward, Veichi will uphold the mission of "market-driven innovation and technology-led development," and continue to redouble its commitment to core technology breakthroughs and product upgrades towards high-performance, high-quality, and high-reliability applications, fostering technological progress across the global electrical transmission and industrial control sectors.



SD900 Series Servo System

UPGRADED



General

SD910

Standard

SD930

Full-featured

SD950

Direct Drive

SD970
(Coming Soon)

6 Advantages

Versatile Compatibility

Asynchronous, synchronous, and direct-driven motors compatibility

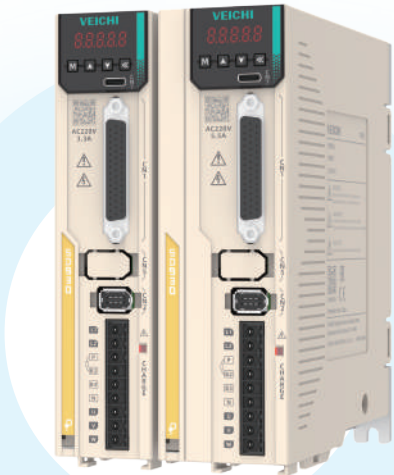


High-performance Engine

Speed ripple compensation @3.5kHz bandwidth



SD900
Series



Full Certification

CE, UL, EAC certification compliance



Trustworthy Safety

Dynamic Brake (DB) and STO



Intelligent Convenience

Black box, Wi-Fi debugging, and one-touch auto-tuning



Comprehensive Features

Full-closed loop and gantry sync flying vision



Advantage Description

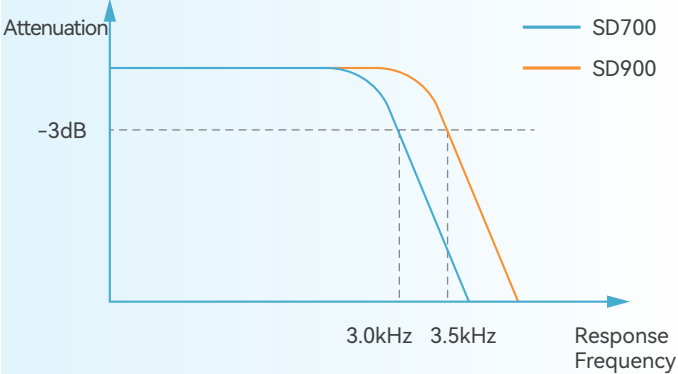
All-purpose Drive

Asynchronous, synchronous, direct-driven motors compatibility.



Robust Performance

3.5kHz speed loop bandwidth enabling higher efficiency in high-precision, high-response applications like semiconductor packaging inspection, precision engraving, and laser cutting.
Note: Speed loop bandwidth is a core performance metric for drives, indicating the fastest speed frequency to which the drive can respond.

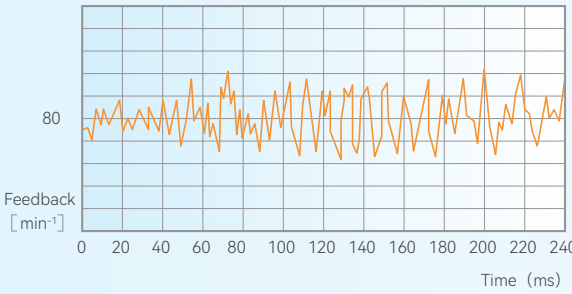


Speed Ripple Compensation

New speed ripple compensation algorithm for smoother speed performance.

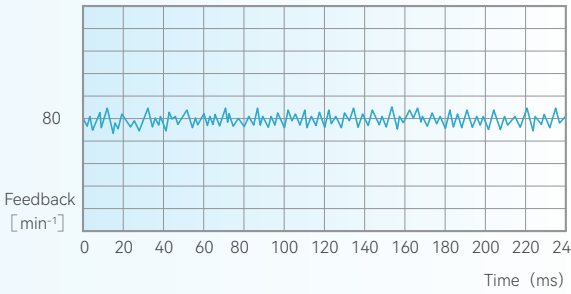
SD700

Speed ripple leads to compromised machining quality and dimensional accuracy.



SD900

Reduced speed fluctuations and smoother motion enhance the quality of the final product.



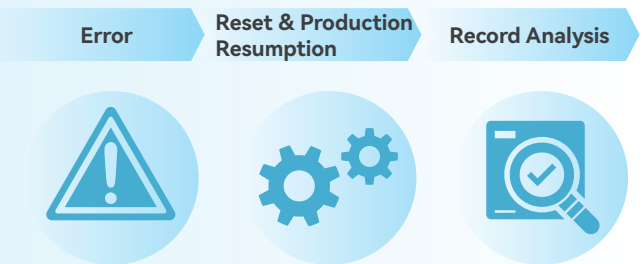
Remote Debug via Wi-Fi

Optional Wi-Fi debugging module allowing for remote modification and parameter optimization.



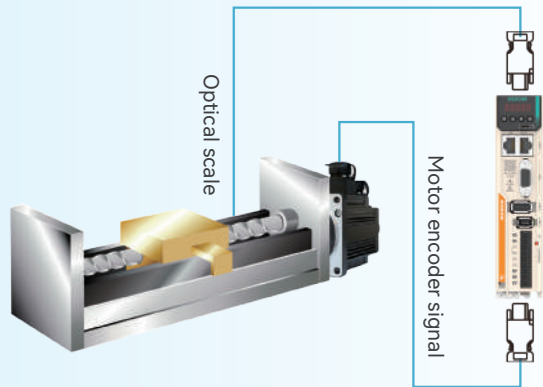
Black Box

The pre-configured black box function with alarm data storage facilitating immediate on-site recovery and subsequent engineering analysis of parameters and waveforms.



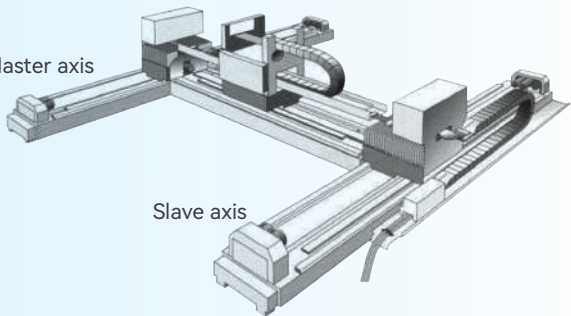
Fully Closed-loop Mode

An external secondary encoder or linear scale available for all models to reduce errors caused by mechanical transmission backlash and improve positioning accuracy.



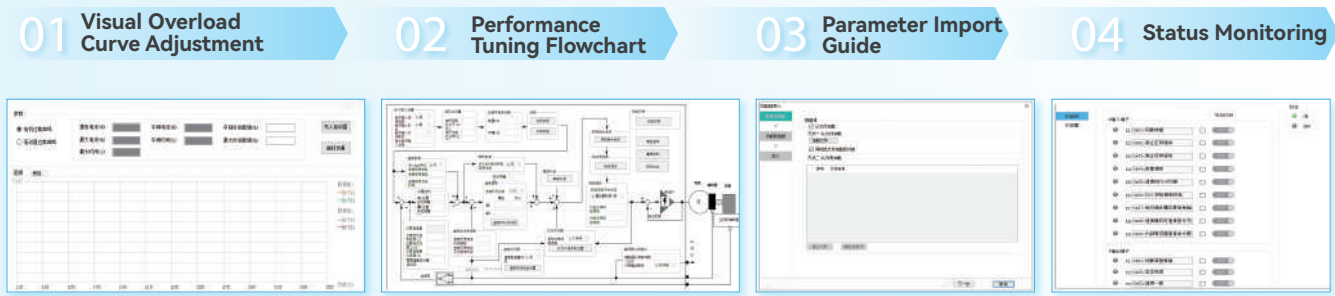
Gantry Support

Master-slave drive control scheme, with two axes communicating via a high-speed bus.



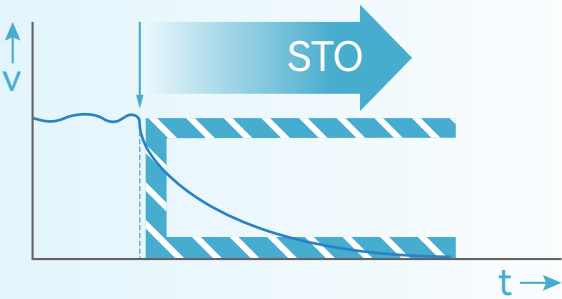
New Servo Software

Various features packed for effortless operation.



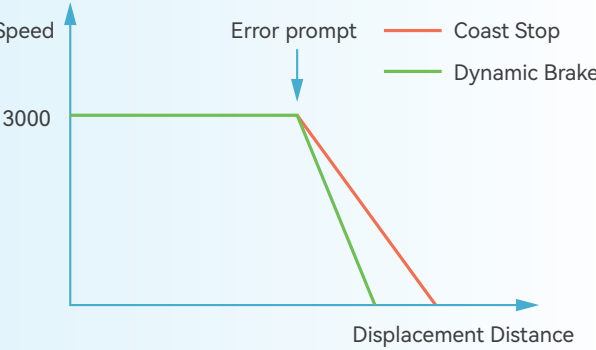
STO (Safety Torque Off)

When the STO function is activated via the terminal, the drive enters a state under which the drive ceases to supply energy required for motor movement, causing motor coasting stop, all compliant with IEC 61508-1 SIL-3 standards.



Dynamic Brake (DB)

Instantly PWM output halt during equipment faults to ensure safety.



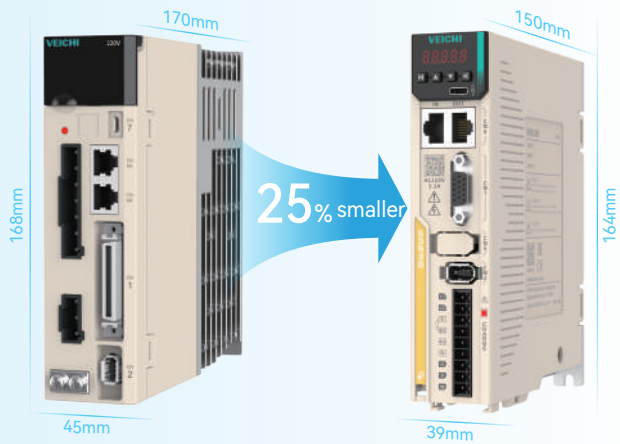
Full Certifications

Compliance with CE, UL, EAC and other international standards.

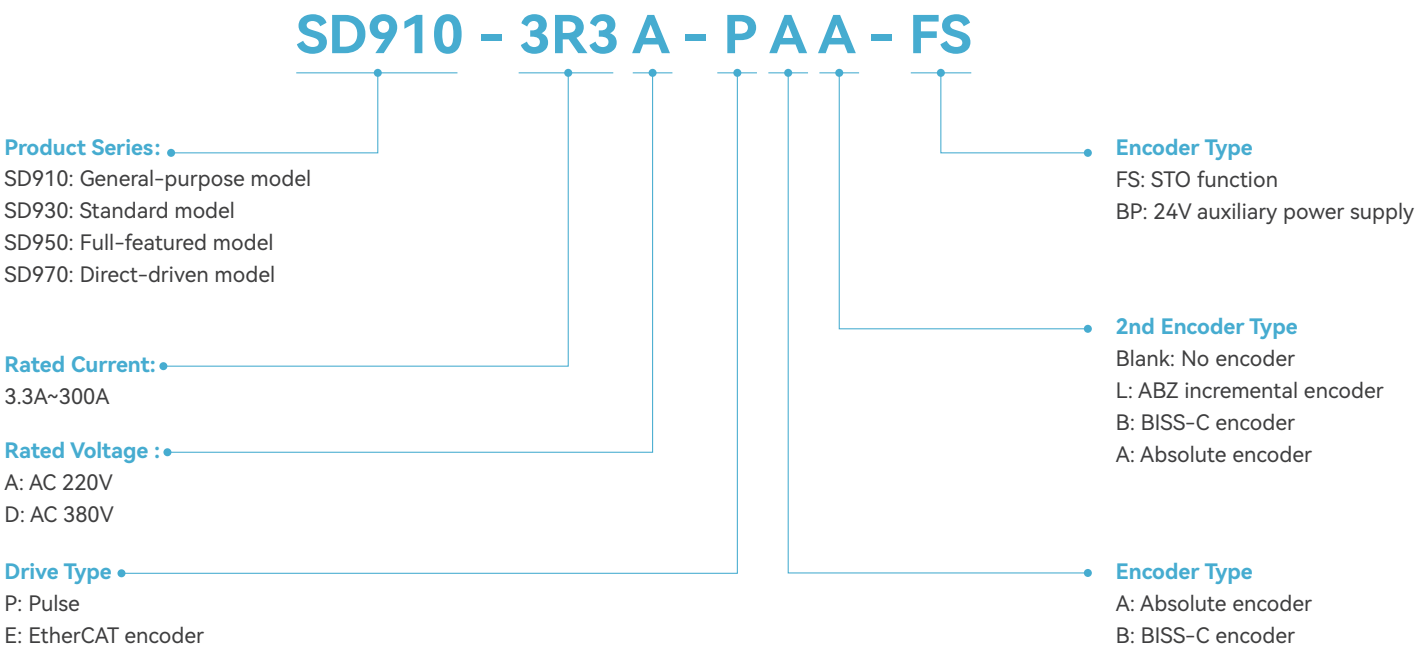


Reduced Volume

Smaller hardware and structural design by 25%.



Naming Rules



Servo Drive Naming Rules

	Pulse			EtherCAT		
Item	Full-featured model SD950	Standard model SD930	General-purpose model SD910	Full-featured model SD950	Standard model SD930	General-purpose model SD910
Frequency Dividing Output	√	√	×	√	×	×
2nd Encoder Interface	√	×	×	√	×	×
Dynamic Brake (DB)	√	√	×	√	√	×
RS485	√	√	√	×	×	×
AI	2	×	×	Non-standard	×	×
AO	1	×	×	Non-standard	×	×
STO	Optional (-FS)		×	Optional (-FS)		×
24V Aux. Power Supply	Optional (-BP)					

Drive Power and Case Type

Case/Item	SIZE A	SIZE B	SIZE C		SIZE D	
Power	3R3A	5R5A	7R6A	9R5A	120A	160A
Main circuit power supply	Single-phase 220V~240V AC, -15%~10%, 50Hz/60Hz				Three-phase 220V~240V AC, -15%~10%, 50Hz/60Hz	
Continuous output current	3.3A	5.5A	7.6A	9.5A	12.0A	16.0A
Instantaneous output current	11.55A	14.85A	20.5A	22.8A	36.0A	36.8A
Overload multiplier	3.5	2.7	2.7	2.4	3	2.3

Case/Item	SIZE C		SIZE D		SIZE E		
Power	3R8D	6R0D	8R4D	110D	170D	240D	300D
Main circuit power supply	Three-phase 380V~440V AC, -15%~10%, 50Hz/60Hz						
Continuous output current	3.8A	6.0A	8.4A	11.0A	17.0A	24.0A	30.0A
Instantaneous output current	10.26A	17.4A	24.26A	25.3A	39.1A	55.2A	69.0A
Overload multiplier	2.7	2.9	2.9	2.3	2.3	2.3	2.3

Drive Specification

Item			Specification
Control Mode			IGBT PWM output with sine wave current
Feedback	Rotaty motor encoder		17-bit, 23-bit, 25-bit Multi-turn absolute encoder
Operating Ambient Condition	Working temperature		-5°C~55°C (Derating between 55°C~60°C)
	Storage temperature		-20°C~85°C
	Working humidity		< 95%RH (No condensation or freezing)
	Storage humidity		< 95%RH (No condensation or freezing)
	Vibration resistance		4.9m/s ²
	Impact resistance		19.6m/s ²
	IP		IP20 (IP00 for terminals)
	Cleanliness		No splashing of water, oil, or chemicals
			Minimal dust, dirt, salt, and metal powder
	Altitude		< 1000m (Derating between 1000m~2000m)
Standards	Others		No thermal electrical interference, strong electric fields, strong magnetic fields, radioactivity, etc.
			EN 61800-5-1:2007+A11:2021, EN 61800-3:2023
Mounting			Base mounting for all models
Performance	Speed regulation range		1:7000 (The lower limit of this range is the value of rated torque load without stopping)
	Speed fluctuation rate	Load-based	< ±0.01 of rated speed (Load fluctuation: 0%~100%)
		Voltage-based	0% of rated speed (Rated voltage ±10%)
		Temperature-based	< ±0.1% or less of rated speed (Temperature fluctuation: 25±25°C)
Torque regulation accuracy			±1%
Soft Start Time			0~30s (Separate ACC/DEC setting)
Communication	Host controller	Communication method	RS485, EtherCAT
		Axis address	Parameter setting
	USB communication	Device Type	PC Type-C
Display			CHARGE indicator
Keypad			Key switch *4
I/O Signal	Encoder divided pulse output		ABZ-phase 4x frequency output
	Sequential control input signal	Assignable output signals(Positive/negative logic can be changed)	Working voltage range: 24V±20% DC
			Input No.: 8(Pulse model) , 5(EtherCAT model)
			Input method: Common-collector and common-emitter
			Servo ON (S-ON)
			Proportional Control (P-CON)
			Homing Decelaration (/DEC)
			Positive Overtravel (P-OT), Negative Overtravel (N-OT)
			Alarm Reset (/ALM-RST)
			Torque Limit (/TLC)
			Speed Direction (/SPD-D)
			Internal Speed Selection (/SPD-A, /SPD-B)
			Control Selection (/C-SEL)
			Zero Clamp (/ZCLAMP)
			Pulse Inhibit (/INHIBIT)
			Pole Detection (/P-DET)
			Gain Selection (/G-SEL)
			Pulse Multiplier Selection (/PSEL)

Item					Specification		
I/O Signal		Fixed output			Working voltage range: 5V~30V DC		
					Output No.: 5(Pulse model) , 3(EtherCAT model)		
	Output Signal: Servo Alarm (ALM)						
	Sequential control input signal	Assignable output signals (Positive/negative logic can be changed)			Working voltage range: 5V~30V DC		
					Output No.: 3		
					Output method: Photocoupler (Isolated)		
					Position Coincidence (/COIN)		
					Torque ON (/TGON)		
					Servo Ready (/S-RDY)		
					Current/Torque Limit (/CLT)		
					Speed Limit (/VLT)		
					Brake (/BK)		
					Warning (/WARN)		
	Position Near (/NEAR)						
	Dynamic Brake				ON when main circuit power/servo drive is OFF or servo alarm/overload occurs		
Regenerative Processing				Built-in, see "Brake Resistor" section for details			
OT Protection				DB, deceleration stop, or coasting stop at /P-OT or /N-OT signal			
Protection Functions				Against overcurrent, overvoltage, undervoltage, overload, regeneration error, etc.			
Auxiliary Functions				Gain regulation, error history, Jog operation, home search, etc.			
Control	Position control	Feedforward compensation			0%~100%		
		Position coincidence range			0~1073741824(reference unit)		
		Input signal	Reference pulse	Pulse pattern	Direction + Pulse, CW + CCW, or Quadrature A/B Phase		
				Input method	Differential or open collector		
				Max. frequency	Differential	Direction + Pulse, CW + CCW, or Quadrature A/B Phase	
					4M		
				Open collector	Direction + Pulse, CW + CCW		
					200K		
		Multiplier	1~100				
			Clear signal			To clear r the position deviation	
	Speed control	Soft start time			0s~30s (Separate ACC/DEC setting)		
		Input signal	Reference voltage	Maximum voltage: ±10V (positive reference for forward operation)			
				Rated torque at 6V DC			
				Gain changeable			
			Impedance	Approx. 14kΩ			
		Circuit sampling time		30μs			
		Internal speed	Direction selection	By /SPD-D			
			Speed selection	By /SPD-A and /SPD-B (Stop or switch to other control mode when both are invalid)			
	Torque control	Input signal	Reference voltage	Maximum voltage: ±10V (positive reference for forward operation)			
				Rated torque at 3V DC			
				Gain changeable			
			Impedance	Approx. 14kΩ			
			Circuit sampling time	16μs			

Drive-Motor Matching Table

220V

Servo Drive	V7E Motors
SD9*0-1R8A-**	V7E-L04A-R1030-** V7E-L04A-R2030-**
SD9*0-3R3A-**	V7E-*06A-R4030-** V7E-L06A-R6030-**
SD9*0-5R5A-**	V7E-*08A-R7530-** V7E-*08A-1R030-** V7E-M13A-1R020-**
SD9*0-7R6A-**	V7E-M11A-1R230-** V7E-M11A-1R530-** V7E-M13A-1R520-**
SD9*0-9R5A-**	V7E-M11A-1R830-** V7E-M13A-1R315-** V7E-M13A-2R020-**
SD9*0-120A-**	V7E-M18A-2R915-**
SD9*0-160A-**	V7E-M13A-3R020-** V7E-M18A-4R415-**

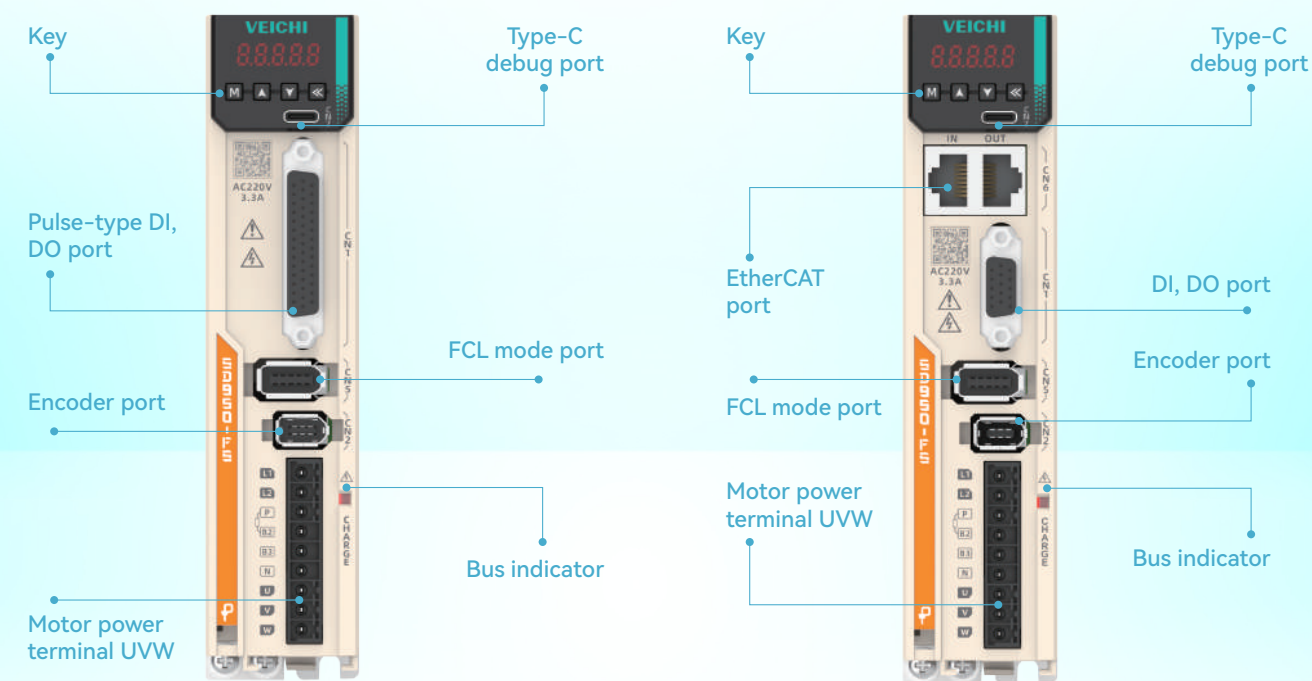
**Certain parameters, such as drive communication protocols, motor inertia, or encoder types will not affect motor-drive compatibility.

380V

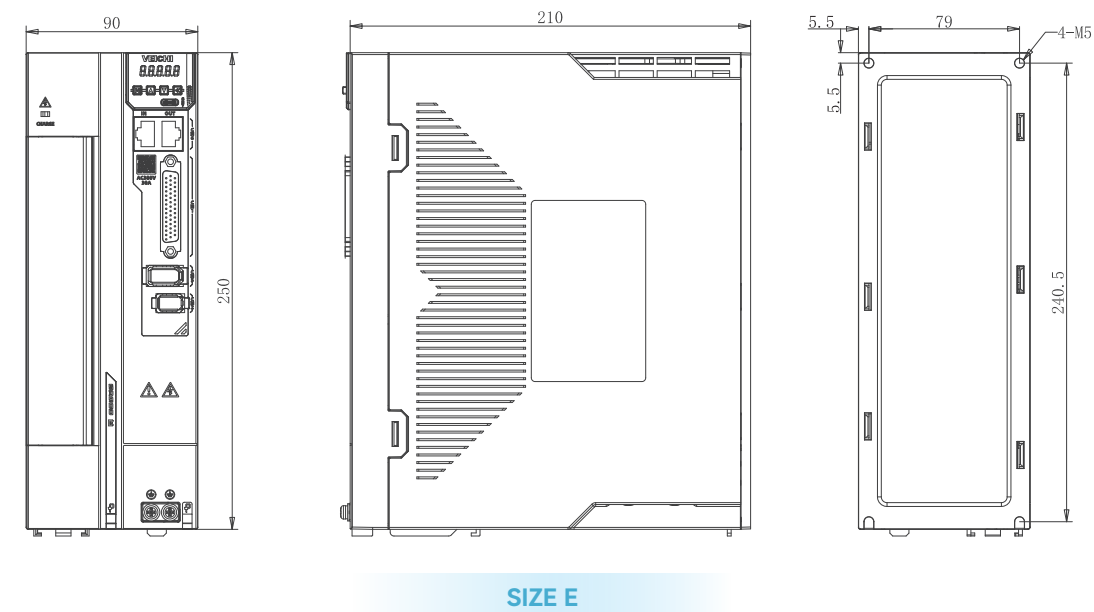
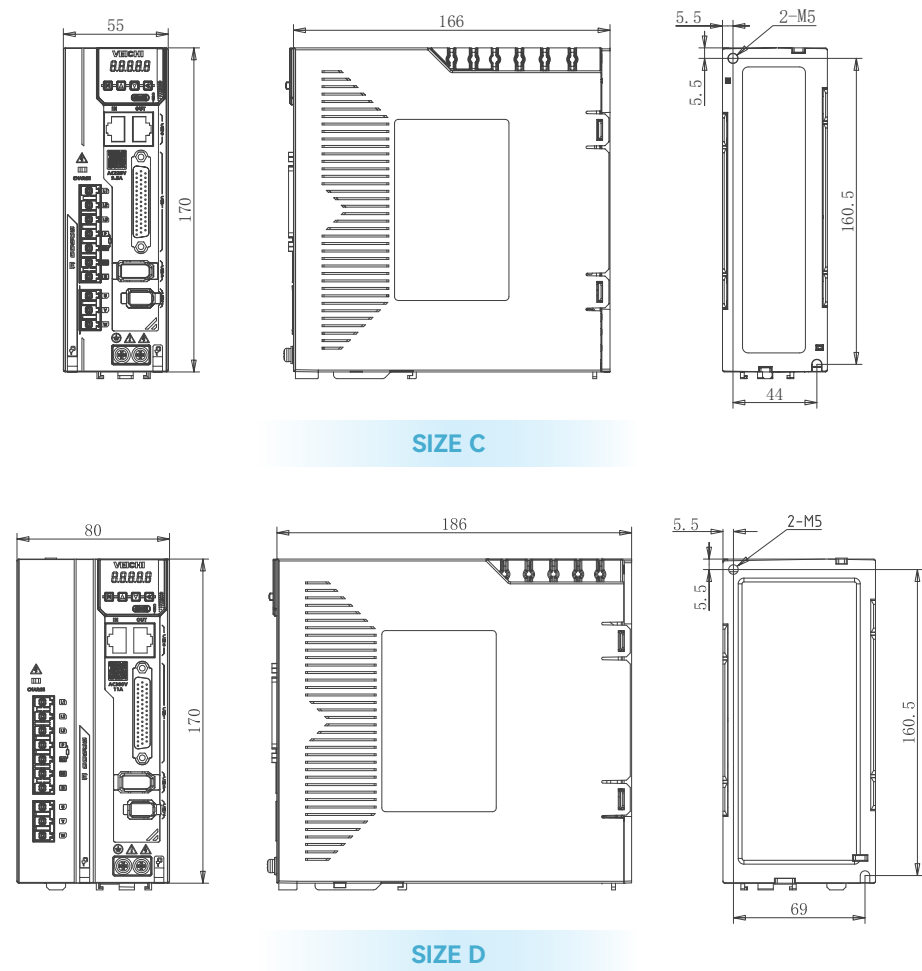
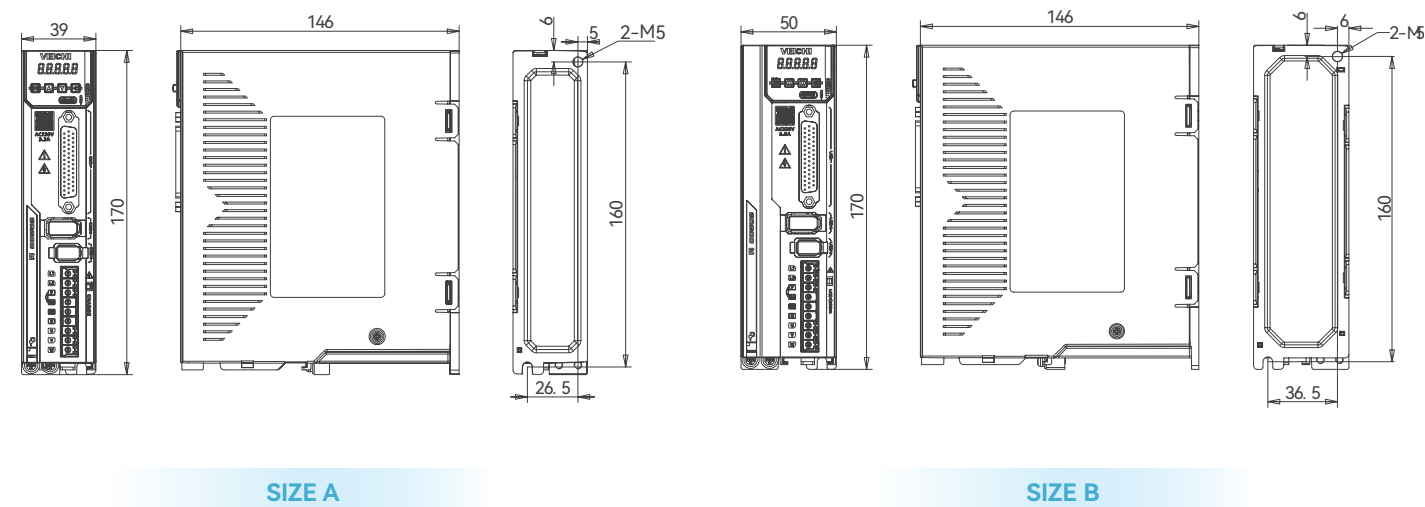
Servo Drive	V7E Motors
SD9*0-3R8D-**	V7E-M13D-1R020-**
SD9*0-6R0D-**	V7E-M13D-1R520-** V7E-M13D-1R315-** V7E-M13D-2R020-**
SD9*0-8R4D-**	V7E-M13D-3R020-** V7E-M18D-2R915-**
SD9*0-110D-**	V7E-M18D-4R415-**
SD9*0-170D-**	V7E-M18D-5R515-** V7E-M18D-7R515-**
SD9*0-240D-**	VM7-M20D-01115-D1FNS VM7-M20D-01115-D2FN
SD9*0-300D-**	VM7-M20D-01515-D1FNS VM7-M20D-01515-D2FN

**Certain parameters, such as drive communication protocols, motor inertia, or encoder types will not affect motor-drive compatibility.

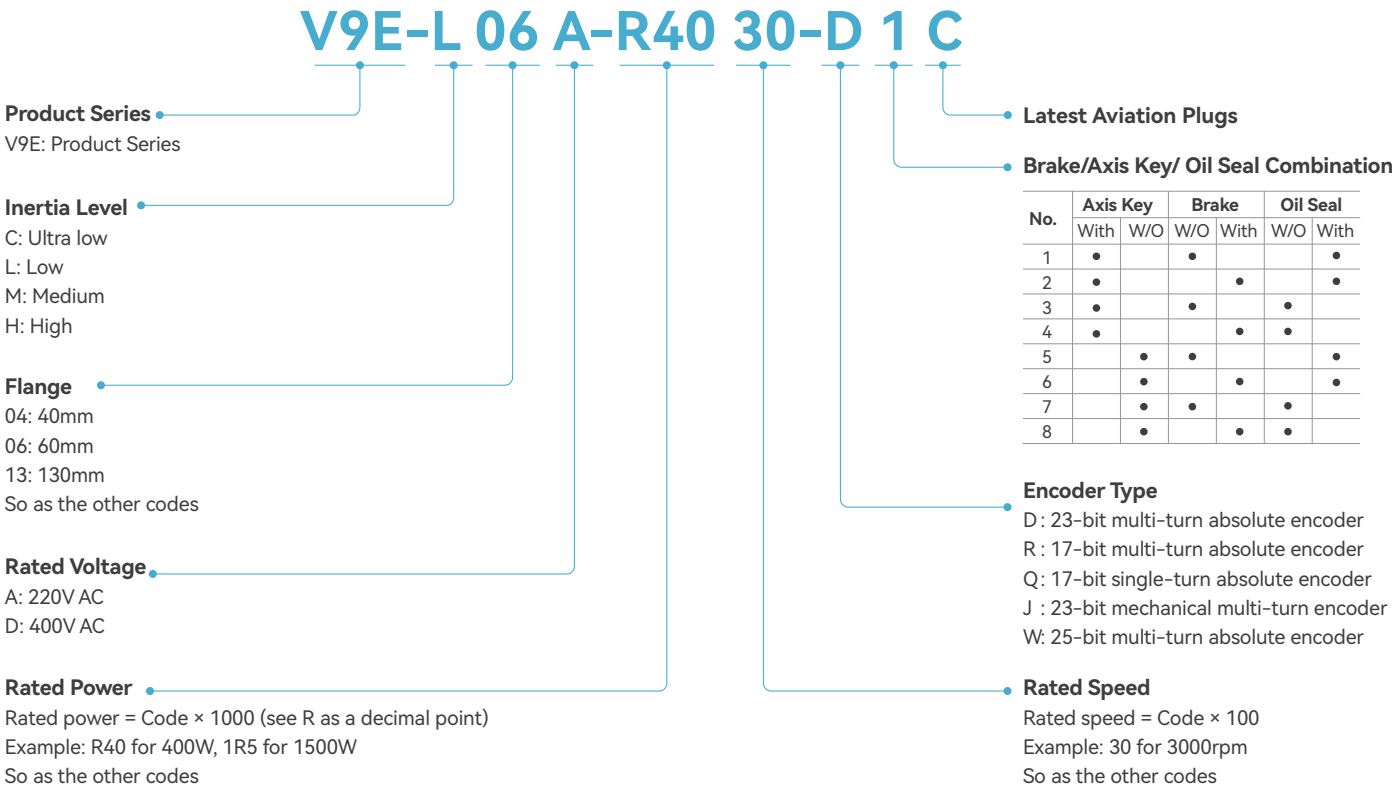
Drive Interface Description



Drive Installation Dimensions



V9E Servo Motor Naming Rules



Model	Voltage (V)	Power (W)	Flange(mm)	Rated Torque (N·m)	Max. Torque (N·m)	Rated Current (A)	Max. Current (A)	Rated Speed (RPM)	Max. Speed (RPM)
V9E-L10D-1R530-**C	380	1500	100	4.8	14.4	4.6	13.8	3000	6000
V9E-L10A-2R030-**C	220	2000	100	6.4	19.2	10.3	30.9	3000	6000
V9E-L10D-2R030-**C	380	2000	100	6.4	19.2	5.9	17.7	3000	6000
V9E-L10A-2R530-**C	220	2500	100	8.0	24.0	13.2	39.6	3000	6000
V9E-L10D-2R530-**C	380	2500	100	8.0	24.0	7.5	22.5	3000	6000
V9E-L13A-1R530-**C	220	1500	130	4.8	14.4	7.5	22.5	3000	5000
V9E-L13D-1R530-**C	380	1500	130	4.8	14.4	5.3	15.9	3000	5000
V9E-L13A-2R030-**C	220	2000	130	6.4	19.2	9.3	27.9	3000	5000
V9E-L13D-2R030-**C	380	2000	130	6.4	19.2	5.8	17.4	3000	5000
V9E-L13D-3R030-**C	380	3000	130	9.6	28.8	8.3	24.9	3000	5000
V9E-L13D-4R030-**C	380	4000	130	12.7	38.1	11	33	3000	5000
V9E-L13D-5R030-**C	380	5000	130	15.9	47.7	16.1	48.3	3000	5000
V9E-M11A-1R230-**C	220	1200	110	3.8	11.4	6.3	18.9	3000	5000
V9E-M11D-1R230-**C	380	1200	110	3.8	11.4	3.7	11.1	3000	5000
V9E-M11A-1R530-**C	220	1500	110	4.8	14.4	7.6	22.8	3000	5000
V9E-M11D-1R530-**C	380	1500	110	4.8	14.4	4.5	13.5	3000	5000
V9E-M11A-1R830-**C	220	1800	110	5.7	17.1	9.3A	27.9	3000	5000
V9E-M11D-1R830-**C	380	1800	110	5.7	17.1	5.5	16.5	3000	5000
V9E-M13A-1R020-**C	220	1000	130	4.8	14.4	4.9	14.7	2000	4000
V9E-M13D-1R020-**C	380	1000	130	4.8	14.4	3.5	10.5	2000	4000
V9E-M13A-1R520-**C	220	1500	130	7.2	21.6	7.5	22.5	2000	4000
V9E-M13D-1R520-**C	380	1500	130	7.2	21.6	5.4	16.2	2000	4000
V9E-M13A-2R020-**C	220	2000	130	9.6	28.8	9.4	28.2	2000	4000
V9E-M13D-2R020-**C	380	2000	130	9.6	28.8	5.5	16.5	2000	4000
V9E-M13A-3R020-**C	220	3000	130	14.3	42.9	15.5	46.5	2000	4000
V9E-M13D-3R020-**C	380	3000	130	14.3	42.9	8.3	24.9	2000	4000
V9E-M18D-4R020-**C	380	4000	180	19.1	47.75	14.7	36.8	2000	4000
V9E-M18D-6R020-**C	380	6000	180	28.7	71.75	24.0	53.0	2000	4000
V9E-M18D-7R520-**C	380	7500	180	35.81	89.53	24.7	61.75	2000	4000
V9E-M13A-R8515-**C	220	850	130	5.4	16.3	5.4	16.2	1500	4000
V9E-M13D-R8515-**C	380	850	130	5.4	16.3	3.8	11.4	1500	4000
V9E-M13A-1R315-**C	220	1300	130	8.3	24.9	9.2	27.6	1500	4000
V9E-M13D-1R315-**C	380	1300	130	8.3	24.9	5.9	17.7	1500	4000
V9E-M13A-1R815-**C	220	1800	130	11.5	34.5	11.8	35.4	1500	4000
V9E-M13D-1R815-**C	380	1800	130	11.5	34.5	8.2	24.6	1500	4000
V9E-M13A-2R315-**C	220	2300	130	14.6	43.8	15.8	47.7	1500	4000
V9E-M13D-2R315-**C	380	2300	130	14.6	43.8	8.2	24.6	1500	4000
V9E-M18A-2R915-**C	220	2900	180	18.5	46.25	12	36	1500	4000
V9E-M18D-2R915-**C	380	2900	180	18.5	46.25	8.3	20.75	1500	4000
V9E-M18D-4R415-**C	380	4400	180	28	70	10.9	27.25	1500	3000
V9E-M18D-5R515-**C	380	5500	180	35	87.5	15	37.5	1500	3000
V9E-M18D-7R515-**C	380	5500	180	47.8	119.5	17	42.5	1500	3000

V9E Motor Specification

Model	Voltage (V)	Power (W)	Flange(mm)	Rated Torque (N·m)	Max. Torque (N·m)	Rated Current (A)	Max. Current (A)	Rated Speed (RPM)	Max. Speed (RPM)
V9E-C06A-R2030-**	220	200	60	0.64	2.24	1.6	5.6	3000	7000
V9E-C06A-R4030-**	220	400	60	1.27	4.45	2.7	9.5	3000	7000
V9E-C06A-R6030-**	220	600	60	1.9	6.65	3.3	11.6	3000	7000
V9E-C08A-R7530-**	220	750	80	2.4	8.4	4.8	16.8	3000	7000
V9E-C08A-1R030-**	220	1000	80	3.2	11.2	5.7	19.92	3000	7000
V9E-C08A-2R030-**	220	2000	80	6.4	19.2	7.7	23.1	3000	6000
V9E-L06A-R1030-**	220	100	60	0.32	1.12	1.1	3.85	3000	7000
V9E-L06A-R2030-**	220	200	60	0.64	2.24	1.5	4.25	3000	7000
V9E-L06A-R4030-**	220	400	60	1.27	4.45	2.5	8.75	3000	7000
V9E-L06A-R6030-**	220	600	60	1.9	6.65	3.3	11.6	3000	7000
V9E-L08A-R7530-**	220	750	80	2.4	8.4	4.3	15.05	3000	7000
V9E-L08A-1R030-**	220	1000	80	3.2	11.2	5.7	19.95	3000	7000
V9E-L10A-1R030-**	220	1000	100	3.2	9.6	5.3	15.9	3000	6000
V9E-L10D-1R030-**	380	1000	100	3.2	9.6	3.6	15.8	3000	6000
V9E-L10A-1R530-**	220	1500	100	4.8	14.4	8.0	24.0	3000	6000

V7E Servo Motor Naming Rules

V7E - L 06 A - R40 30 - D 1 □

Product Series
V7E
VM7

Inertia Level
L: Low
M: Medium
H: High

Flange
04: 40mm 18: 180mm
06: 60mm 20: 200mm
08: 80mm 26: 260mm
11: 110mm 32: 320mm
13: 130mm 40: 400mm

Rated Voltage
A: 220V AC
D: 400V AC

Rated Power

Code	Power	Code	Power	Code	Power	Code	Power
R05	50W	1R2	1.2KW	4R4	4.4KW	037	37KW
R10	100W	1R3	1.3KW	5R5	5.5KW	045	45KW
R20	200W	1R5	1.5KW	7R5	7.5KW	055	55KW
R40	400W	1R8	1.8KW	011	11KW	075	75KW
R60	600W	2R0	2.0KW	015	15KW	090	90KW
R75	750W	2R3	2.3KW	020	20KW	110	110KW
R85	850W	2R9	2.9KW	022	22KW	150	150KW
1R0	1.0KW	3R0	3.0KW	030	30KW	200	200KW

Product Management Code

No.	Axis Key	Oil Seal	Brake
	W/O	With	With
1		•	•
2		•	•

Encoder Type
D: 23-bit multi-turn optical encoder
Q: 17-bit single-turn magnetic encoder
R: 17-bit multi-turn magnetic encoder
S: 20-bit Multi-turn absolute encoder with double slider coupling

Rated Speed(RPM)
15: 1500
20: 2000
25: 2500
30: 3000

Motor Brake Power Table (Estimated):

Flange	Brake Power
40	7W
60	10W
80	15W
110	15W
130	20W
180	30W



V7E Servo Motor Technical Specifications (General-purpose)

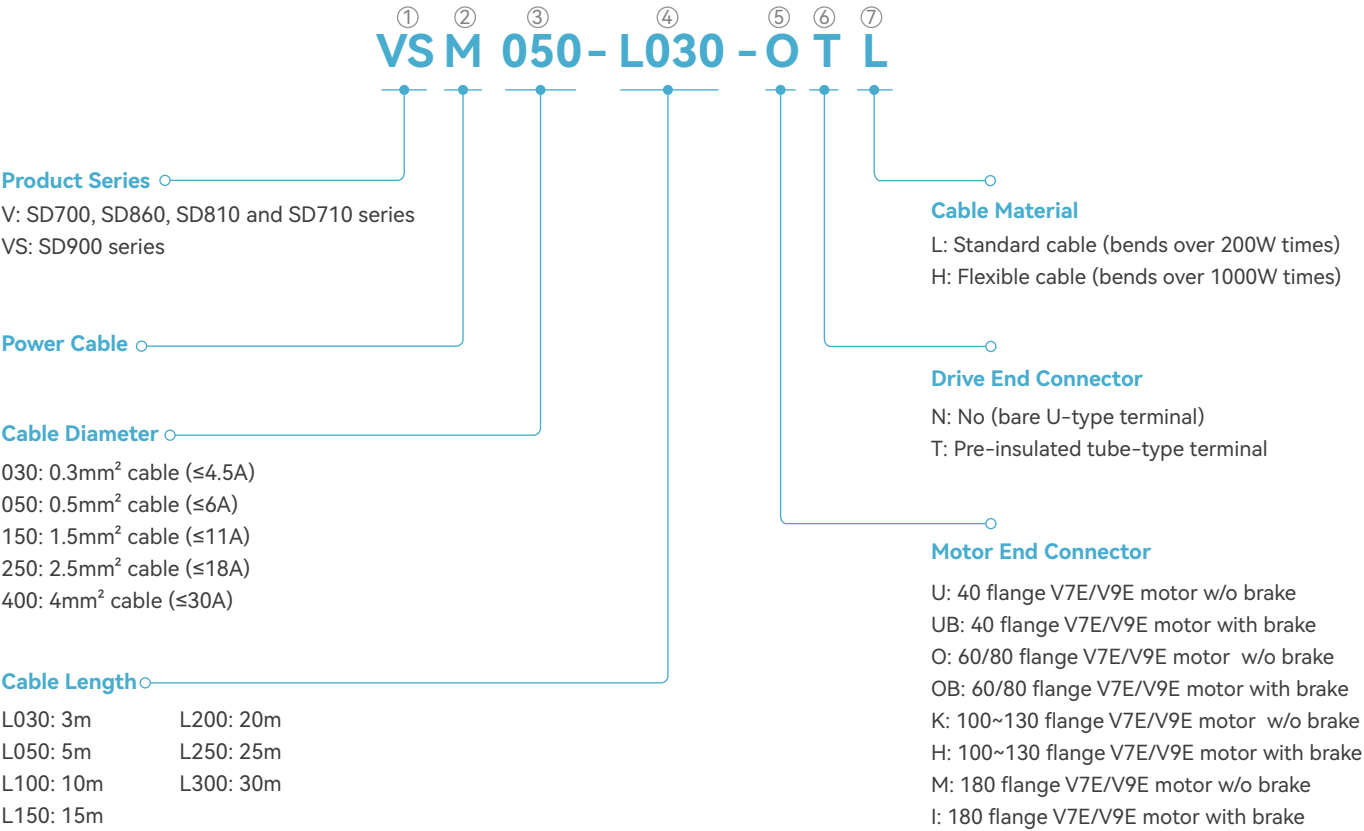
Model	Voltage (V)	Power (W)	Rated Torque (N·m)	Max Torque (N·m)	Rated Speed (RPM)	Max. speed (RPM)	Rated Current (A)	Max. Current (A)	Moment of Inertia(kg·cm ²)
V7E-L04A-R1030-□1	220	100	0.32	0.96	3000	6000	1	3	0.051
V7E-L04A-R1030-□2	220	100	0.32	0.96	3000	6000	1	3	0.052
V7E-L06A-R2030-□1	220	200	0.64	1.92	3000	6000	1.7	5.1	0.18
V7E-L06A-R2030-□2	220	200	0.64	1.92	3000	6000	1.7	5.1	0.2
V7E-L06A-R4030-□1	220	400	1.27	3.81	3000	6000	2.6	7.8	0.34
V7E-L06A-R4030-□2	220	400	1.27	3.81	3000	6000	2.6	7.8	0.36
V7E-M06A-R4030-□1	220	400	1.27	3.81	3000	6000	2.6	7.8	0.67
V7E-M06A-R4030-□2	220	400	1.27	3.81	3000	6000	2.6	7.8	0.69
V7E-L06A-R6030-□1	220	600	1.91	5.73	3000	5000	3.3	9.9	0.51
V7E-L06A-R6030-□2	220	600	1.91	5.73	3000	5000	3.3	9.9	0.53
V7E-L08A-R7530-□1	220	750	2.38	7.14	3000	6000	4.6	13.8	1.02
V7E-L08A-R7530-□2	220	750	2.38	7.14	3000	6000	4.6	13.8	1.13
V7E-M08A-R7530-□1	220	750	2.38	7.14	3000	6000	4.6	13.8	2.3
V7E-M08A-R7530-□2	220	750	2.38	7.14	3000	6000	4.6	13.8	2.41
V7E-L08A-1R030-□1	220	1000	3.18	9.54	3000	5000	5	16.5	1.34
V7E-L08A-1R030-□2	220	1000	3.18	9.54	3000	5000	5	16.5	1.45
V7E-M11A-1R230-□1	220	1200	3.82	11.46	3000	5000	6.3	18.9	4.91
V7E-M11A-1R230-□2	220	1200	3.82	11.46	3000	5000	6.3	18.9	5.52
V7E-M11A-1R530-□1	220	1500	4.78	14.34	3000	5000	7.6	22.8	6.1
V7E-M11A-1R530-□2	220	1500	4.78	14.34	3000	5000	7.6	22.8	6.71
V7E-M11A-1R830-□1	220	1800	5.73	17.19	3000	5000	9.3	27.9	7.28
V7E-M11A-1R830-□2	220	1800	5.73	17.19	3000	5000	9.3	27.9	7.89
V7E-M13A-1R020-□1	220	1000	4.78	14.34	2000	3000	4.9	14.7	10.51
V7E-M13A-1R020-□2	220	1000	4.78	14.34	2000	3000	4.9	14.7	12.65
V7E-M13A-1R520-□1	220	1500	7.16	21.48	2000	3000	7.1	21.3	14.85
V7E-M13A-1R520-□2	220	1500	7.16	21.48	2000	3000	7.1	21.3	16.99
V7E-M13A-2R020-□1	220	2000	9.55	28.65	2000	3000	9.4	28.2	20.63
V7E-M13A-2R020-□2	220	2000	9.55	28.65	2000	3000	9.4	28.2	22.77
V7E-M13A-3R020-□1	220	3000	14.33	42.99	2000	3000	14	42	36.38
V7E-M13A-3R020-□2	220	3000	14.33	42.99	2000	3000	14	42	38.52
V7E-M18A-2R915-□1	220	2900	18.46	46.15	1500	2000	12	30	49.56
V7E-M18A-2R915-□2	220	2900	18.46	46.15	1500	2000	12	30	56.05
V7E-M18A-4R415-□1	220	4400	28.01	70.025	1500	1800	16	40	68.9
V7E-M18A-4R415-□2	220	4400	28.01	70.025	1500	1800	16	40	75.39
V7E-M13D-1R020-□1	380	1000	4.78	14.34	2000	3000	3.2	9.6	10.51
V7E-M13D-1R020-□2	380	1000	4.78	14.34	2000	3000	3.2	9.6	12.65
V7E-M13D-1R520-□1	380	1500	7.16	21.48	2000	3000	4.4	13.2	14.85
V7E-M13D-1R520-□2	380	1500	7.16	21.48	2000	3000	4.4	13.2	16.99
V7E-M13D-2R020-□1	380	2000	9.55	28.65	2000	3000	5.5	16.5	20.63
V7E-M13D-2R020-□2	380	2000	9.55	28.65	2000	3000	5.5	16.5	22.77
V7E-M13D-3R020-□1	380	3000	14.33	42.99	2000	3000	8.3	24.9	36.38
V7E-M13D-3R020-□2	380	3000	14.33	42.99	2000	3000	8.3	24.9	38.52
V7E-M18D-2R915-□1	380	2900	18.46	46.15	1500	2000	7.1	17.8	49.56
V7E-M18D-2R915-□2	380	2900	18.46	46.15	1500	2000	7.1	17.8	56.05
V7E-M18D-4R415-□1	380	4400	28.01	70.025	1500	2000	10.9	27.3	68.9
V7E-M18D-4R415-□2	380	4400	28.01	70.025	1500	2000	10.9	27.3	75.39
V7E-M18D-5R515-□1	380	5500	35.02	87.55	1500	2000	13.4	33.5	110.11
V7E-M18D-5R515-□2	380	5500	35.02	87.55	1500	2000	13.4	33.5	116.6
V7E-M18D-7R515-□1	380	7500	47.75	119.3	1500	2000	17	42.5	156.61
V7E-M18D-7R515-□2	380	7500	47.75	119.3	1500	2000	17	42.5	163.09

V7E Servo Motor Technical Specifications (Specific-purpose)

Model	Voltage (V)	Power (W)	Rated Torque (N·m)	Max Torque (N·m)	Rated Speed (RPM)	Max. speed (RPM)	Rated Current (A)	Max. Current (A)	Moment of Inertia(kg·cm ²)
V7E-L08A-R7520-□1L	220	750	3.58	10.74	2000	2500	2.8	8.4	1.34
V7E-L08A-R7520-□2L	220	750	3.58	10.74	2000	2500	2.8	8.4	1.45
V7E-L08A-R7530-□1L	220	750	2.38	7.14	3000	4000	3.1	9.3	1.02
V7E-L08A-R7530-□2L	220	750	2.38	7.14	3000	4000	3.1	9.3	1.13
V7E-M13A-R8515-□1	220	850	5.41	16.23	1500	3000	5.4	16.2	10.51
V7E-M13A-R8515-□2	220	850	5.41	16.23	1500	3000	5.4	16.2	12.65
V7E-M13A-R8515-□1B	220	850	5.41	16.23	1500	3000	5.4	16.2	10.51
V7E-M13A-R8515-□2B	220	850	5.41	16.23	1500	3000	5.4	16.2	12.65
V7E-M13A-1R815-□1	220	1800	11.46	34.38	1500	3000	10.9	32.7	20.63
V7E-M13A-1R815-□2	220	1800	11.46	34.38	1500	3000	10.9	32.7	22.77
V7E-M13A-1R815-□1B	220	1800	11.46	34.38	1500	3000	10.9	32.7	20.63
V7E-M13A-1R815-□2B	220	1800	11.46	34.38	1500	3000	10.9	32.7	22.77
V7E-M13A-1R315-□1	220	1300	8.28	24.84	1500	3000	8.2	24.6	14.85
V7E-M13A-1R315-□2	220	1300	8.28	24.84	1500	3000	8.2	24.6	16.99
V7E-M13A-2R315-□1	220	2300	14.64	43.92	1500	3000	14	42	29.27
V7E-M13A-2R315-□2	220	2300	14.64	43.92	1500	3000	14	42	31.41
V7E-M13A-2R315-□1L	220	2300	14.64	43.92	1500	2000	9.5	28.5	29.27
V7E-M13A-2R315-□2L	220	2300	14.64	43.92	1500	2000	9.5	28.5	31.41
V7E-M18A-2R915-□1H	220	2900	18.46	46.15	1500	3000	16	40	49.56
V7E-M18A-2R915-□2H	220	2900	18.46	46.15	1500	3000	16	40	56.05
V7E-M13D-R8515-□1B	380	850	5.41	16.23	1500	3000	3.3	9.9	10.51
V7E-M13D-R8515-□2B	380	850	5.41	16.23	1500	3000	3.3	9.9	12.65
V7E-M13D-R8515-□1	380	850	5.41	16.23	1500	3000	3.3	9.9	10.51
V7E-M13D-R8515-□2	380	850	5.41	16.23	1500	3000	3.3	9.9	12.65
V7E-M13D-1R315-□1	380	1300	8.28	24.84	1500	3000	4.8	14.4	14.85
V7E-M13D-1R315-□2	380	1300	8.28	24.84	1500	3000	4.8	14.4	16.99
V7E-M13D-1R815-□1B	380	1800	11.46	34.38	1500	3000	6.6	19.8	20.63
V7E-M13D-1R815-□2B	380	1800	11.46	34.38	1500	3000	6.6	19.8	22.77
V7E-M13D-1R815-□1	380	1800	11.46	34.38	1500	3000	6.6	19.8	20.63
V7E-M13D-1R815-□2	380	1800	11.46	34.38	1500	3000	6.6	19.8	22.77
V7E-M13D-2R315-□1L	380	2300	14.64	43.92	1500	2000	5.6	16.8	29.27
V7E-M13D-2R315-□2L	380	2300	14.64	43.92	1500	2000	5.6	16.8	31.41
V7E-M13D-2R315-□1	380	2300	14.64	43.92	1500	3000	8.4	25.2	29.27
V7E-M13D-2R315-□2	380	2300	14.64	43.92	1500	3000	8.4	25.2	31.41
V7E-M18D-2R915-□1H	380	2900	18.46	46.15	1500	3000	10.7	26.8	49.56
V7E-M18D-2R915-□2H	380	2900	18.46	46.15	1500	3000	10.7	26.8	56.05
V7E-M18D-4R415-□1H	380	4400	28.01	70.025	1500	3000	16.2	40.5	68.9
V7E-M18D-4R415-□2H	380	4400	28.01	70.025	1500	3000	16.2	40.5	75.39
V7E-M18D-5R515-□1H	380	5500	35.02	87.55	1500	3000	19	47.5	110.11
V7E-M18D-5R515-□2H	380	5500	35.02	87.55	1500	3000	19	47.5	116.6
V7E-M18D-5R515-□1BH	380	5500	35.02	87.55	1500	3000	19	47.5	110.11
V7E-M18D-5R515-□2BH	380	5500	35.02	87.55	1500	3000	19	47.5	116.6
V7E-M18D-7R515-□1H	380	7500	47.75	119.3	1500	3000	27.6	69	156.6
V7E-M18D-7R515-□2H	380	7500	47.75	119.3	1500	3000	27.6	69	163.09
V7E-M18D-7R515-□1BH	380	7500	47.75	119.3	1500	3000	27.6	69	156.6
V7E-M18D-7R515-□2BH	380	7500	47.75	119.3	1500	3000	27.6	69	163.09

Drive Cable

Power Cable Naming Rules



Motor Power Cables

VSM030-④-UT⑦

40 flange
without brake



VSM030-④-UBT⑦

40 flange
with brake



VSM050-④-OT⑦

60/80
flange
without brake



VSM050-④-OBT⑦

60/80
flange
with brake



VM150-④-KN⑦

VM250-④-KN⑦

110/130
flange
without brake

VM150-④-HN⑦

VM250-④-HN⑦

110/130
flange
with brake

VM250-④-MN⑦

VM400-④-MN⑦

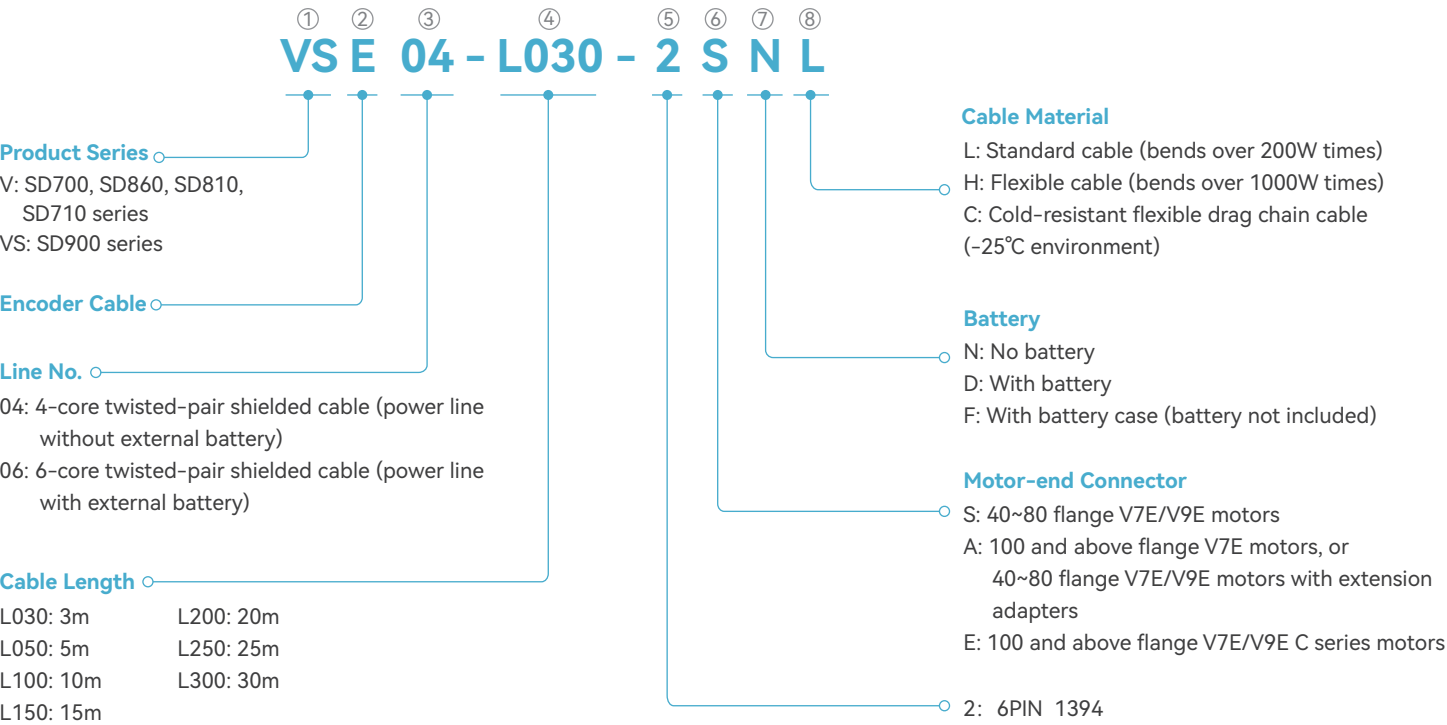
180 flange
without brake

VM250-④-IN⑦

VM400-④-IN⑦

180 flange
with brake

Encoder Cable Naming Rules



Note:For 40~80 flange motors with cables exceeding 20 meters, it is recommended to use an extension adapter.

Encoder Cable

VSE04-④-2SN⑧

40/60/80
flange
Single-turn
absolute encode cable

VSE06-④-2SD⑧

40/60/80
flange
Multi-turn
absolute encoder cable

VSE04-④-2AN⑧

110 and above
flange
Single-turn
absolute encoder cable

VSE06-④-2AD⑧

110 and above
flange
Multiple-turn
absolute encoder cable

Research and Production

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

- 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.

