

SD710 Series General Servo System



About us

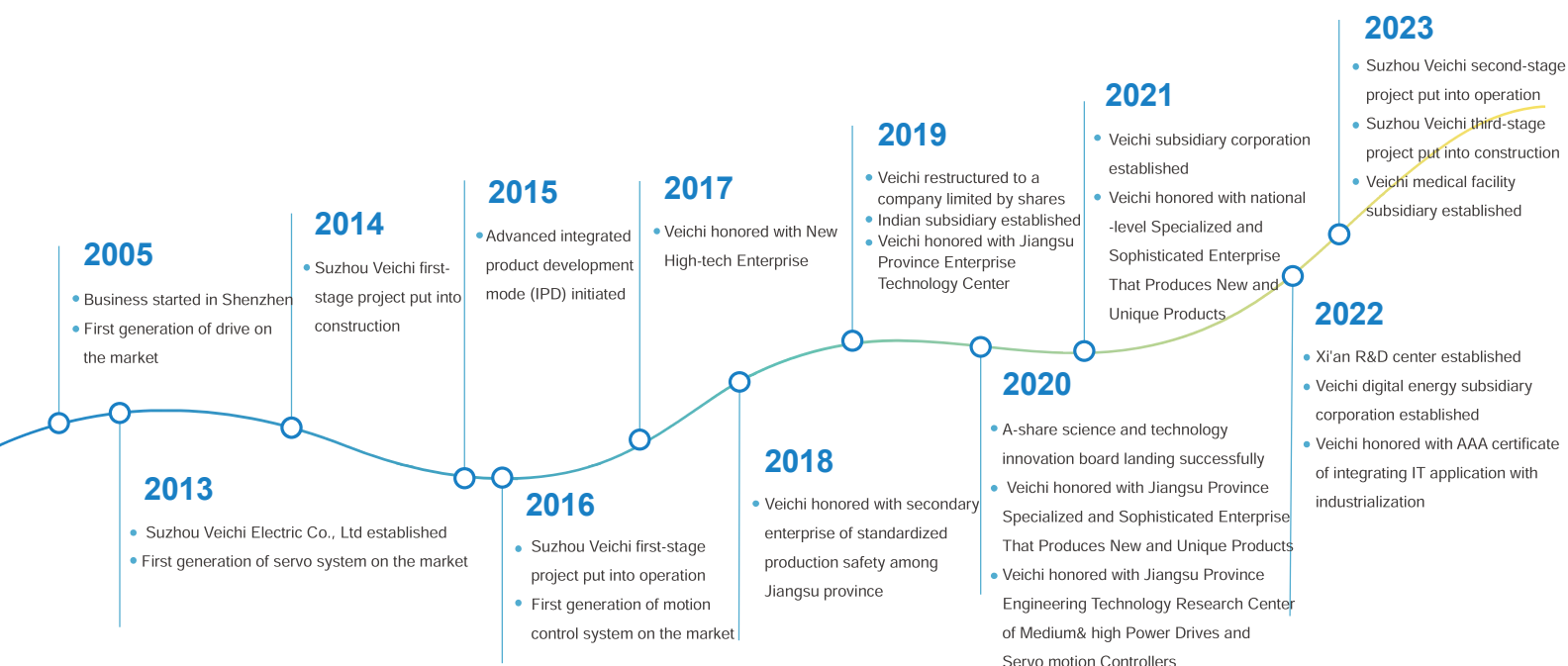


Veichi (stock code: 688698) has always committed to electric drive and industrial control since its foundation. As an all-round company engaged in R & D, manufacturing and sales on high-tech industrial automation products, Veichi has been identified with several honorary titles such as Jiangsu provincial-level Enterprise Technology Center, Jiangsu Private-own Technical Enterprise, Specialized and sophisticated enterprises that produce new and unique products, Jiangsu Engineering Research Center, Jiangsu New and High-tech Enterprise and Suzhou city-level Gazelle Company (High Growth Enterprise) and has obtained the highest level of enterprise credit. Through years of independent research and development, Veichi now has authorized patents totaling 148 by the end of 12, 2022, and among them 36 are for invention. Having established R & D center and manufacturing bases in Suzhou, Shenzhen and Xi'an, added with the wholly-owned subsidiary in India, Veichi now are dealing with customers from several nations and regions and has the full capability to provide safe, competitive and trustworthy products and services to customers from the larger world.

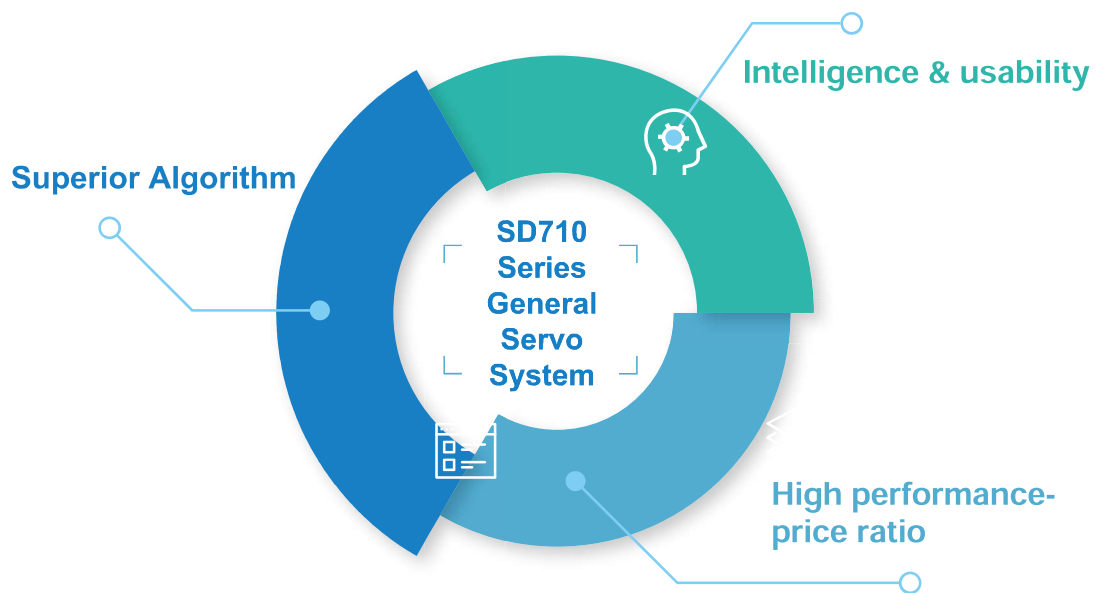
Veichi provides various products including drives from 0.4kW to 5,600kW, servo systems from 50W to 200kW, motion controllers, PLC and HMI, which are applied in all sorts of fields occasions like lifting, mining, rail traffic, machine tools, compressors, plastic equipment, photo-voltaic pumping, construction, robots/mechanical arms, printing and packaging, chemical fibers for textile use, metallurgy, municipal works, petrol work and chemical engineering.

18 service stations and 182 contracted distributors cover 31 provinces on China mainland and Hong Kong, Macao and Taiwan regions, which guarantees a massive and efficient network for sales and services for our customers.

Veichi will continue to abide by the operation philosophy, that is, guided by market demand and driven by technical innovation, enlarge and enhance its core business like drives, servo systems, control systems and SLoTs. And Veichi will always be hard at providing quality products and services for customers and further make contributions to the development of electric drives and industrial controls.



SD710 Series General Servo System



VEICHI SD710 Series
General Servo System

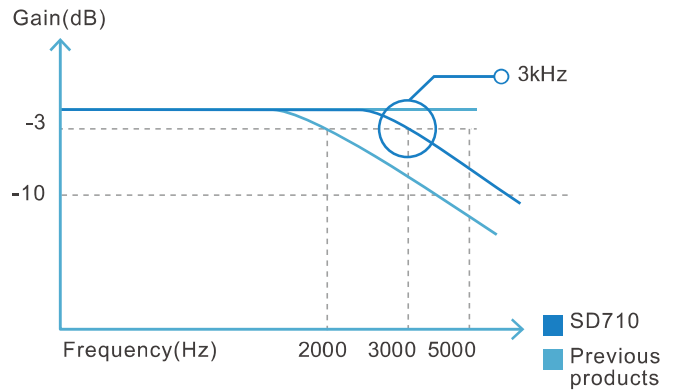
Product Features

Drive parameters backup

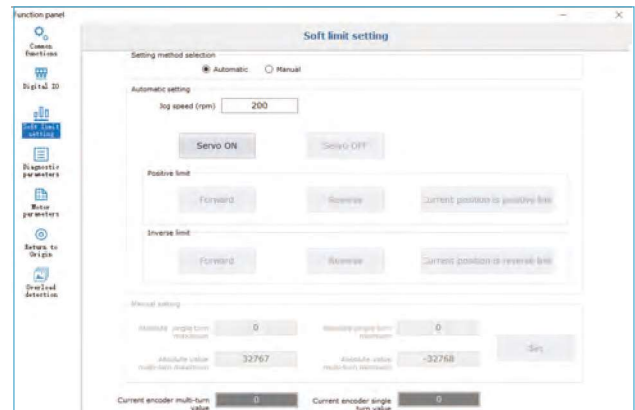
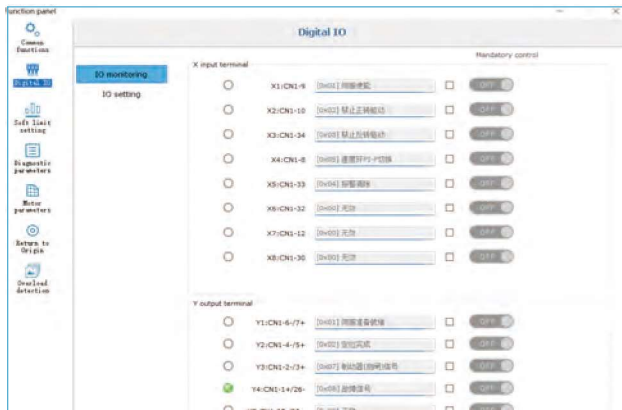
Backup function of debugging software avoids repeated setting on the same model.



Continuation of outstanding performance of Veichi products

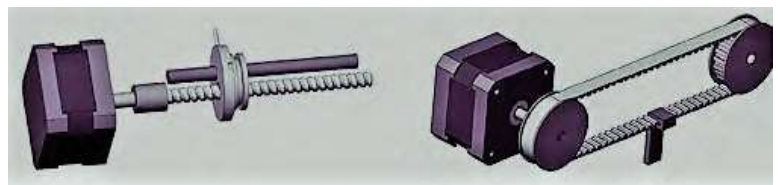


Clear debugging panel



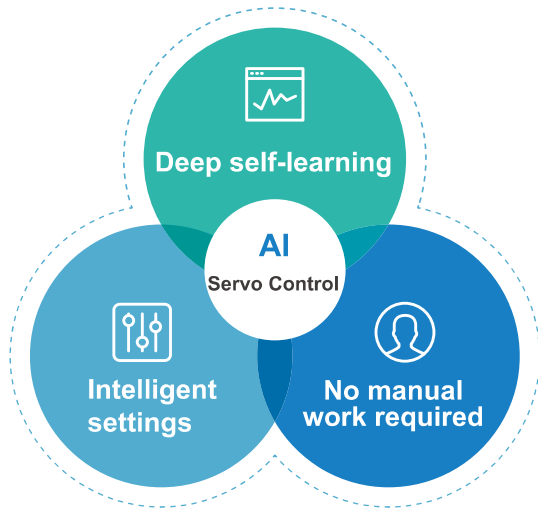
Automatic parameter tuning

1. Differentiate according to different mechanical structures complex loop parameters
2. Complete intelligent setting of
3. Automatic set according to the mechanical situation without any manual work
4. Set position within as fast as 10ms



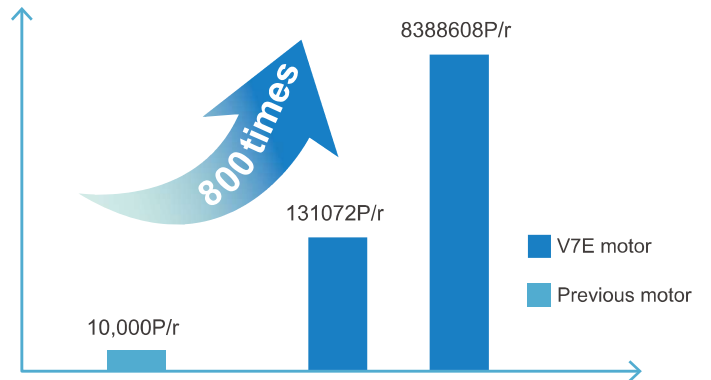
Mechanical structures such as screws, timing belts, rigid bodies, etc. are all dealt with differently

Intelligent Settings



Compatible with 17bit/23bit absolute encoders

power-off position automatically saved with absolute value encoder
 encoder battery life over 3 years
 encoder with different resolutions to meet different application requirements



Superb bus communication



Micro USB	standard upper computer-special Micro USB interface
RS485	standard RS485 communication
CANopen	Optional CANopen communication
EtherCAT	Optional EtherCAT communication

Hardware and structure upgrade for smaller size

Hardware & structure upgraded leading to 5R5 models reduced in size by 30%



Drive Model Description

SD 710 - 3R3 A - P A

SD:
Servo product codes

710:
Economical servo series

Rated current

(A) 220VAC		(D) 400VAC	
1R8	1.8A	3R8	3.8A
3R3	3.3A		
5R5	5.5A		
7R6	7.6A		
9R5	9.5A		

Encoder type
A: Absolute type

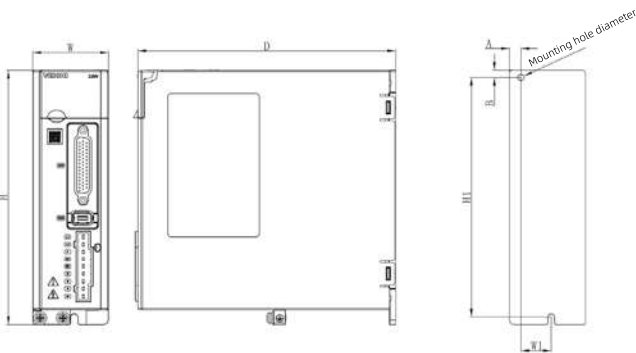
Drive Type
P: Pulse
C: CANopen bus
E: EtherCAT bus

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

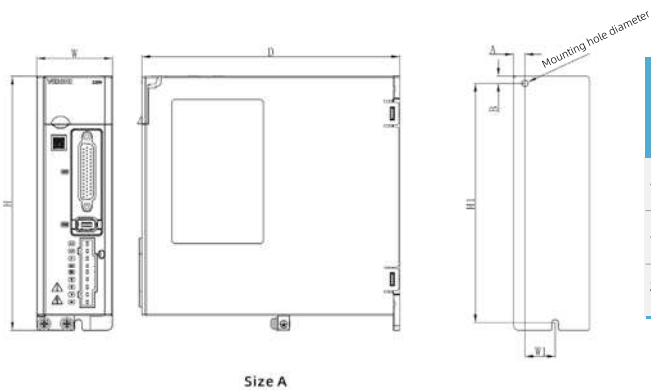
Drive Power and Case Division

Model	Input	Output		Case size
	Rated voltage (V)	Rated current (A)	Instantaneous current (A)	
SD710-1R8A	single-phase220	1.8	6.3	A
SD710-3R3A	single-phase220	3.3	11.6	
SD710-5R5A	single-phase/three-phase220	5.5	16.5	B
SD710-7R6A	single-phase/three-phase220	7.6	22.8	
SD710-9R5A	three-phase220	9.5	23.8	
SD710-3R8D	three-phase400	3.8	11.4	

Drive Size Diagram



Model	Boundary dimension(mm)			Mounting dimensions (mm)				Mounting hole size
	W	H	D	W1	H1	A	B	
SD710-1R8A-**								
SD710-3R3A-**	50	170	170	20	160	7.5	5	2-M4
SD710-5R5A-**								



Model	Boundary dimension(mm)			Mounting dimensions (mm)				Mounting hole size
	W	H	D	W1	H1	A	B	
SD710-7R6A-**	65	180	170	55	170	5	5	2-M4
SD710-9R5A-**								
SD710-3R8D-**								

Technical Specifications

Items		Specifications	
Control method		IGBT, PWM control, sine wave current drive	
Encoder feedback		Serial encoder: absolute encoder	
Environment Condition	Operation temperature	0°C~55°C (usable by reducing the rated value under 55°C~60°C)	
	Storage temperature	-20°C~65°C	
	Operation humidity	Under 95%RH (No freezing and condensation)	
	Storage humidity	Under 95%RH (No freezing and condensation)	
	Vibration resistance	4.9m/s	
	Impact strength	19.6m/s ²	
	Protection class	IP20	
	Altitude	Lower than 1000m (usable by reducing the rated value under 1000m~2000m)	
	Others	No electrostatic interference, strong electric field, strong magnetic field, radiation, etc.	
Speed Control	Speed control range	1:5000 (the lower limit of speed control range also means the value of not stopping at rated torque load)	
	Speed fluctuation ratio	Load fluctuation	Less than ±0.01% of rated speed (under load fluctuation: 0% to 100%)
		Voltage fluctuation	0% of rated speed (under voltage fluctuation: ±10%)
		Temperature fluctuation	Less than ±0.01% of rated speed (under temperature fluctuation: 25°C±25°C)
Torque Control	Torque control accuracy	±1% (reproducible)	
	Soft start time setting	0s~10s (acceleration and deceleration can be set separately)	
Position Control	Feedforward compensation	0%~100%	
	Command pulse	Command pulse pattern	Command pulse pattern three types: "pulse + direction", "CW + CCW pulse sequence", and "A and B phase orthogonal pulse"
		Input pattern	Linear drive with open collector
Communication	Maximum input frequency	Differential input: high speed max. 4Mpps; open collector: max. 200Kpps.	
	485	Standard	
	CAN	Optional	
	USB	PC as upper machine, standard, compliant with USB 2.0 specifications (12Mbps)	
Display		CHARGE, 8-segment LED × 5 bits	
Panel operators		Push button switch×4	
Regeneration treatment		Functions can be built-in/externally set	
Protection		Over current&voltage, undervoltage, overload, regenerative fault, encoder disconnection, OT protection	
Auxiliary Functions		Gain adjustment, alarm recording, JOG operation, etc.	
Encoder pulse divider output		Phase A, Phase B, Phase C: Linear drive output; number of divided pulses: 35~32767	

Servo Motor Model Description

V7E - L 06 A - R40 30 - D 1 □

Product Series
V7E

Inertia class
L: Low inertia
M: Medium inertia
H: High inertia

Flange size
04: 40mm
06: 60mm
08: 80mm
11: 110mm
13: 130mm

Rated voltage
A: 220V AC
D: 380V AC

Rated power

Mark	Power	Mark	Power	Mark	Power
R10	100W	R75	750W	1R3	1.3KW
R20	200W	R85	850W	1R5	1.5KW
R40	400W	1R0	1.0KW	1R8	1.8KW
R60	600W	1R2	1.2KW	2R0	2KW

Internal Management No.

No.	axis		Oil seal		Brake	
	optic-axis	bond axis	with	w/o	with	w/o
1		•	•			•
2		•	•		•	

Encoder type

D: 23-bit multi-turn absolute optical encoder
Q: 17-bit single-turn absolute magnetic encoder
R: 17-bit multi-turn absolute magnetic encoder

Rated speed (RPM) Motor brake power table (estimated values).

15: 1500
20: 2000
25: 2500
30: 3000

Flange	Brake power
40	7W
60	10W
80	15W
110	15W
130	20W



Servo Motor Technical Parameters (General Model)

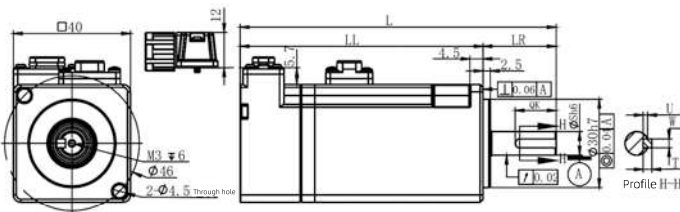
V7E model	Voltage (V)	Power (W)	Rated torque (N·m)	Rated speed (RPM)	Max. speed (RPM)	Rated current (A)	Max. current (A)	Rotor inertia
V7E-L04A-R1030-□1	220	100	0.32	3000	6000	1	3	0.051kg·cm ²
V7E-L04A-R1030-□2	220	100	0.32	3000	6000	1	3	0.052kg·cm ²
V7E-L06A-R2030-□1	220	200	0.64	3000	6000	1.7	5.1	0.18kg·cm ²
V7E-L06A-R2030-□2	220	200	0.64	3000	6000	1.7	5.1	0.2kg·cm ²
V7E-L06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.34kg·cm ²
V7E-L06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.36kg·cm ²
V7E-M06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.67kg·cm ²
V7E-M06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.69kg·cm ²
V7E-L06A-R6030-□1	220	600	1.91	3000	5000	3.3	9.9	0.51kg·cm ²
V7E-L06A-R6030-□2	220	600	1.91	3000	5000	3.3	9.9	0.53kg·cm ²
V7E-L08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	1.02kg·cm ²
V7E-L08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	1.13kg·cm ²
V7E-M08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	2.3kg·cm ²
V7E-M08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	2.41kg·cm ²
V7E-L08A-1R030-□1	220	1000	3.18	3000	5000	5	16.5	1.34kg·cm ²
V7E-L08A-1R030-□2	220	1000	3.18	3000	5000	5	16.5	1.45kg·cm ²
V7E-M11A-1R230-□1	220	1200	3.82	3000	5000	6.3	18.9	4.91kg·cm ²
V7E-M11A-1R230-□2	220	1200	3.82	3000	5000	6.3	18.9	5.52kg·cm ²
V7E-M11A-1R530-□1	220	1500	4.78	3000	5000	7.6	22.8	6.1kg·cm ²
V7E-M11A-1R530-□2	220	1500	4.78	3000	5000	7.6	22.8	6.71kg·cm ²
V7E-M11A-1R830-□1	220	1800	5.73	3000	5000	9.3	27.9	7.28kg·cm ²
V7E-M11A-1R830-□2	220	1800	5.73	3000	5000	9.3	27.9	7.89kg·cm ²
V7E-M13A-1R020-□1	220	1000	4.78	2000	3000	4.9	14.7	12.98kg·cm ²
V7E-M13A-1R020-□2	220	1000	4.78	2000	3000	4.9	14.7	15.12kg·cm ²
V7E-M13A-1R520-□1	220	1500	7.16	2000	3000	7.1	21.3	18.38kg·cm ²
V7E-M13A-1R520-□2	220	1500	7.16	2000	3000	7.1	21.3	20.52kg·cm ²
V7E-M13A-2R020-□1	220	2000	9.55	2000	3000	9.4	28.2	25.58kg·cm ²
V7E-M13A-2R020-□2	220	2000	9.55	2000	3000	9.4	28.2	27.72kg·cm ²
V7E-M13D-1R020-□1	380	1000	4.78	2000	3000	3.2	9.6	12.98kg·cm ²
V7E-M13D-1R020-□2	380	1000	4.78	2000	3000	3.2	9.6	15.12kg·cm ²

Servo Motor Technical Parameters (Special Model)

V7E Models	Voltage (V)	Power (W)	Rated torque (N·m)	Rated speed (RPM)	Max. speed (RPM)	Rated current (A)	Max. current (A)	Rotor inertia
V7E-L08A-R7520-□1L	220	750	3.58	2000	2500	2.8	8.4	1.34kg·cm ²
V7E-L08A-R7520-□2L	220	750	3.58	2000	2500	2.8	8.4	1.45kg·cm ²
V7E-L08A-R7530-□1L	220	750	2.38	3000	4000	3.1	9.3	1.02kg·cm ²
V7E-L08A-R7530-□2L	220	750	2.38	3000	4000	3.1	9.3	1.13kg·cm ²
V7E-M13A-R8515-□1B	220	850	5.41	1500	3000	5.4	16.2	12.98kg·cm ²
V7E-M13A-R8515-□2B	220	850	5.41	1500	3000	5.4	16.2	15.12kg·cm ²
V7E-M13A-R8515-□1	220	850	5.41	1500	3000	5.4	16.2	12.98kg·cm ²
V7E-M13A-R8515-□2	220	850	5.41	1500	3000	5.4	16.2	15.12kg·cm ²
V7E-M13A-1R315-□1	220	1300	8.28	1500	3000	8.2	24.6	18.38kg·cm ²
V7E-M13A-1R315-□2	220	1300	8.28	1500	3000	8.2	24.6	20.52kg·cm ²
V7E-M13D-R8515-□1	380	850	5.41	1500	3000	3.3	9.9	12.98kg·cm ²
V7E-M13D-R8515-□2	380	850	5.41	1500	3000	3.3	9.9	15.12kg·cm ²
V7E-M13D-R8515-□1B	380	850	5.41	1500	3000	3.3	9.9	12.98kg·cm ²
V7E-M13D-R8515-□2B	380	850	5.41	1500	3000	3.3	9.9	15.12kg·cm ²

Servo Motor Installation Dimensions

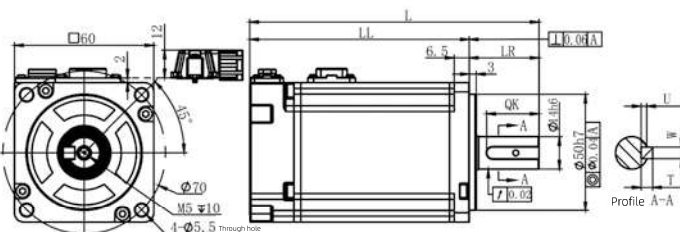
40 flange



unit: mm

Motor Model	L	LL	LR	S	QK	U	W	T
V7E-L04A-R1030-□1	108	83	25	8	14	1.5	3	3
V7E-L04A-R1030-□2	134	109	25	8	14	1.5	3	3

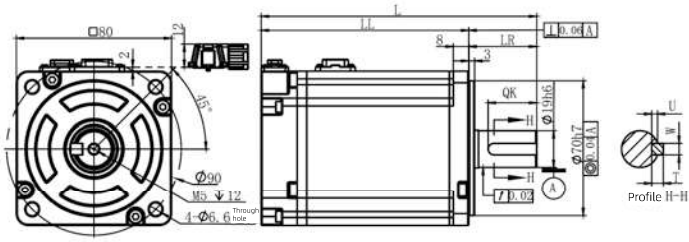
60 flange



unit: mm

Motor Model	L	LL	LR	S	QK	U	W	T
V7E-L06A-R2030-□1	105.5	75.5	30	14	22.5	2.5	5	5
V7E-L06A-R2030-□2	136.5	106.5	30	14	22.5	2.5	5	5
V7E-L06A-R4030-□1	124.5	94.5	30	14	22.5	2.5	5	5
V7E-L06A-R4030-□2	155.5	125.5	30	14	22.5	2.5	5	5
V7E-M06A-R4030-□1	134.5	104.5	30	14	22.5	2.5	5	5
V7E-M06A-R4030-□2	165.5	135.5	30	14	22.5	2.5	5	5
V7E-L06A-R6030-□1	143.5	113.5	30	14	22.5	2.5	5	5
V7E-L06A-R6030-□2	174.5	144.5	30	14	22.5	2.5	5	5

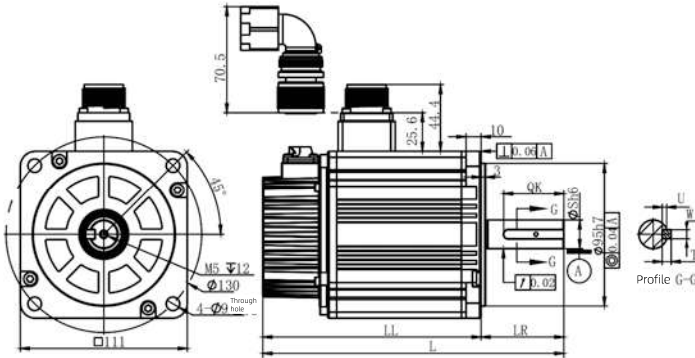
80 flange



unit: mm

Motor Model	L	LL	LR	S	QK	U	W	T
V7E-L08A-R7520-□1L	156	121	35	19	25	3	6	6
V7E-L08A-R7520-□2L	188	153	35	19	25	3	6	6
V7E-L08A-R7530-□1L	142	107	35	19	25	3	6	6
V7E-L08A-R7530-□2L	174	139	35	19	25	3	6	6
V7E-L08A-R7530-□1	142	107	35	19	25	3	6	6
V7E-L08A-R7530-□2	174	139	35	19	25	3	6	6
V7E-M08A-R7530-□1	152	117	35	19	25	3	6	6
V7E-M08A-R7530-□2	184.5	149.5	35	19	25	3	6	6
V7E-L08A-1R030-□1	156	121	35	19	25	3	6	6
V7E-L08A-1R030-□2	188	153	35	19	25	3	6	6

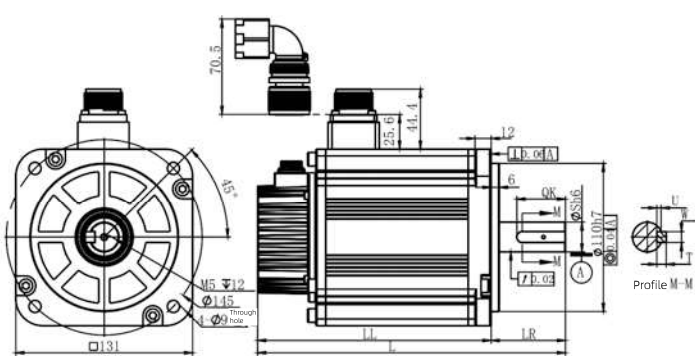
110 flange



unit: mm

Motor Model	L	LL	LR	S	QK	U	W	T
V7E-M11A-1R230-□1	190	135	55	19	40	3	6	6
V7E-M11A-1R230-□2	221.2	166.2	55	19	40	3	6	6
V7E-M11A-1R530-□1	200	145	55	19	40	3	6	6
V7E-M11A-1R530-□2	231.2	176.2	55	19	40	3	6	6
V7E-M11A-1R830-□1	210	155	55	19	40	3	6	6
V7E-M11A-1R830-□2	241.2	186.2	55	19	40	3	6	6

130 flange

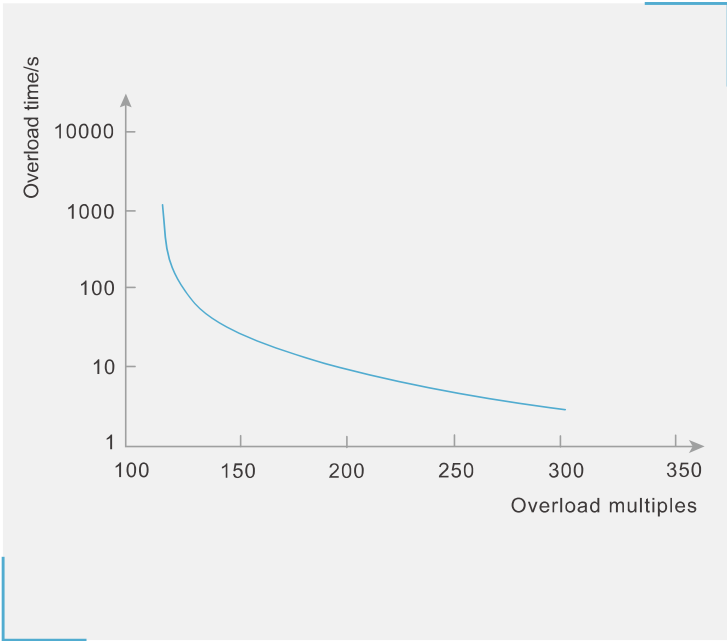


unit: mm

Motor Model	L	LL	LR	S	QK	U	W	T
V7E-M13A-R8515-□1	193	138	55	22	36	3.2	8	7
V7E-M13A-R8515-□2	221.2	166.2	55	22	36	3.2	8	7
V7E-M13A-1R020-□1	193	138	55	22	36	3.2	8	7
V7E-M13A-1R020-□2	221.2	166.2	55	22	36	3.2	8	7
V7E-M13A-1R315-□1	208	153	55	22	36	3.2	8	7
V7E-M13A-1R315-□2	236.2	181.2	55	22	36	3.2	8	7
V7E-M13A-1R520-□1	208	153	55	22	36	3.2	8	7
V7E-M13A-1R520-□2	236.2	181.2	55	22	36	3.2	8	7
V7E-M13A-2R020-□1	228	173	55	22	36	3.2	8	7
V7E-M13A-2R020-□2	256.2	201.2	55	22	36	3.2	8	7

Motor Overload Characteristics Curve

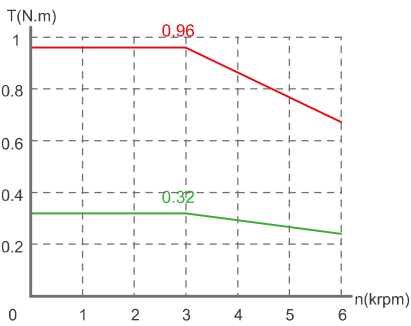
Overload multiples	Overload time/s
1.2	228
1.3	73
1.4	42
1.5	29
1.6	22
1.7	17
1.8	14
1.9	12
2.0	10
2.1	8
2.2	7
2.3	6
2.4	5
2.5	4.5
3.0	3



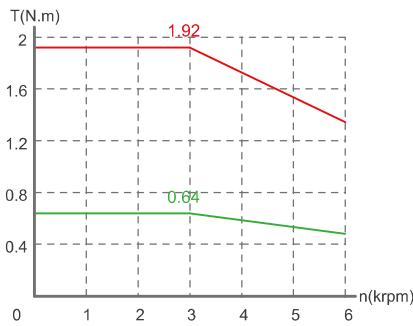
Servo Motor Torque Characteristics

Note: " — " for rated torque " — " for maximum instantaneous torque

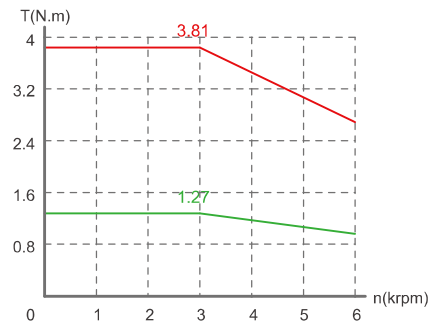
V7E-L04A-R1030-□□



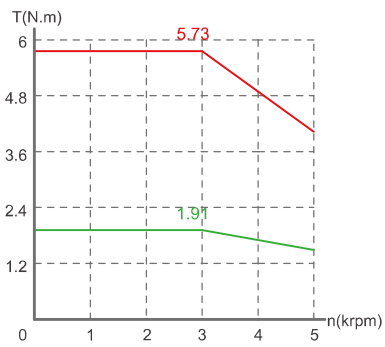
V7E-L06A-R2030-□□



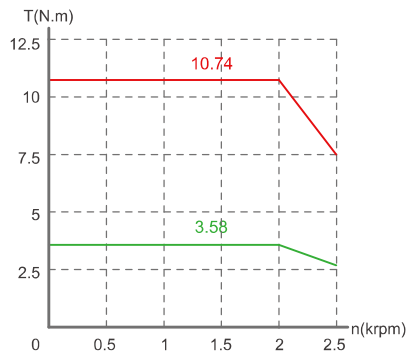
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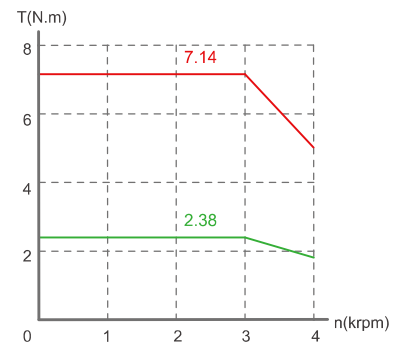
V7E-L06A-R6030-□□



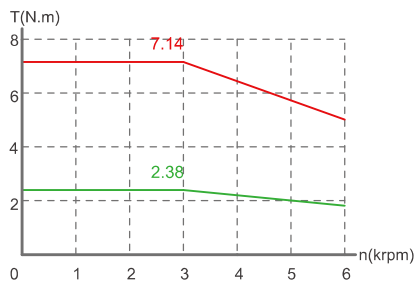
V7E-L08A-R7520-□□L



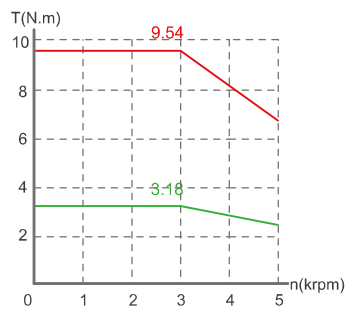
V7E-L08A-R7530-□□L



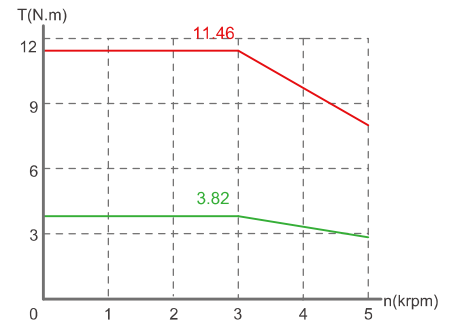
V7E-□08A-R7530-□□



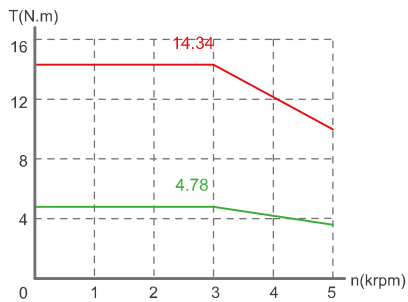
V7E-L08A-1R030-□□



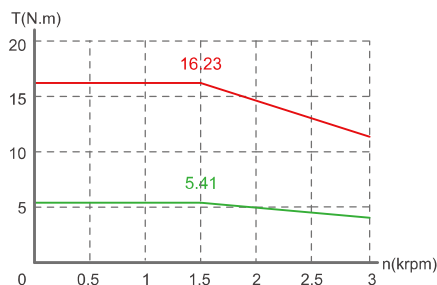
V7E-M11A-1R230-□□



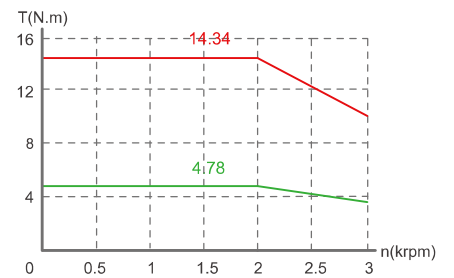
V7E-M11A-1R530-□□



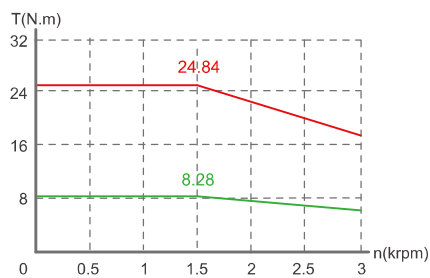
V7E-M13□-R8515-□□



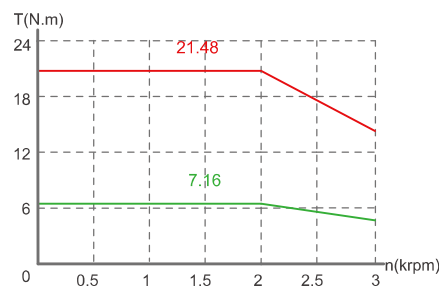
V7E-M13□-1R020-□□



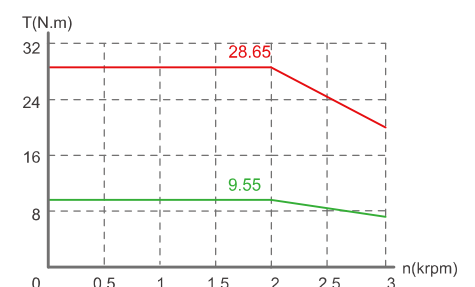
V7E-M13□-1R315-□□



V7E-M13□-1R520-□□

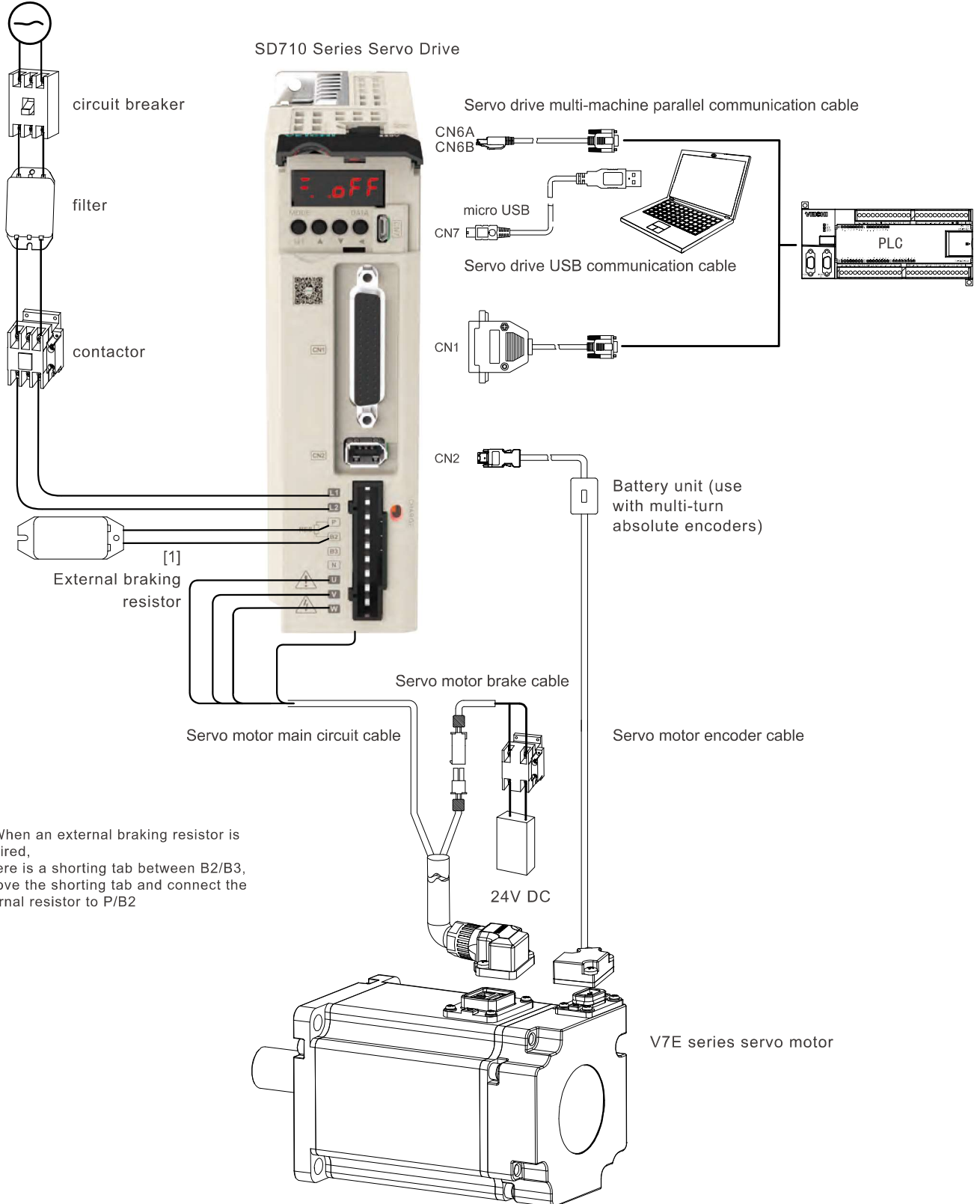


V7E-M13□-2R020-□□



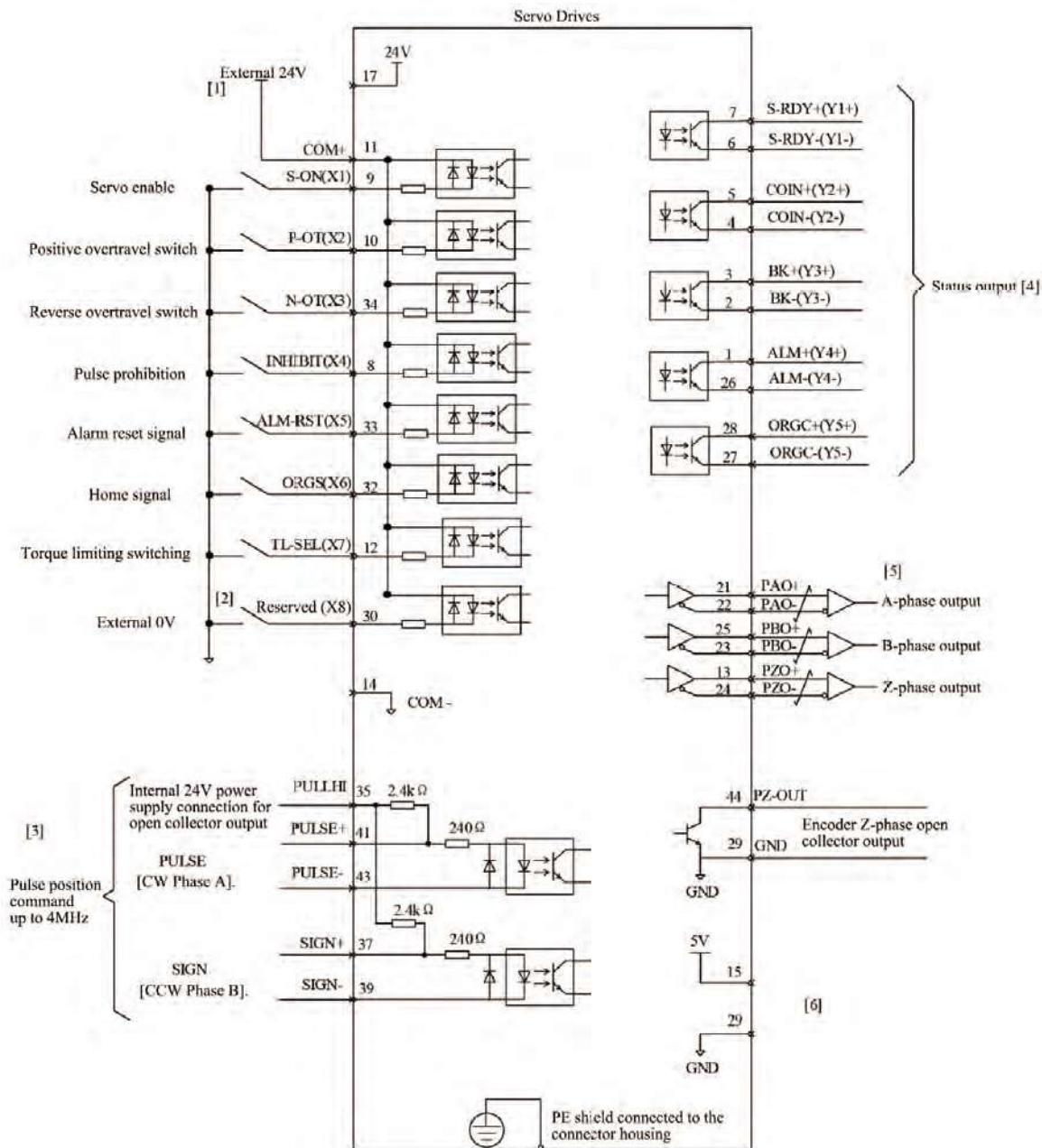
System Application Wiring Guide

AC220V/AC400V power



[1] When an external braking resistor is required, if there is a shorting tab between B2/B3, remove the shorting tab and connect the external resistor to P/B2

Position Control Wiring Diagram



- [1] Example shows external power supply wiring; if using internal 24V power supply, please connect pin 17 (24V positive) to pin 11, and the connection of input terminal corresponds to pin and pin 14 (COM-).
- [2] X7 and X8 are high-speed DI terminals, please choose according to different functions.
- [3] Pulse port wiring must be connected with shielded twisted-pair wires, and the shielding layer must be connected to PE at both ends. GND must be reliably connected to the upper computer signal ground terminal.
- [4] Y output power supply needs to be prepared by user-selves. The power supply range is 5~24V. Y port maximum allowable voltage is DC30V and maximum allowable current 50mA.
- [5] Please use shielded twisted-pair cables for the encoder frequency divider output, and the shielding layer must be connected to PE at both ends. GND must be reliably connected to the upper computer signal ground terminal.
- [6] Internal +5V power supply and maximum running current is 200mA.

SD710 Servo Drive Wire Introduction

Power cable naming rules

① ② ③ ④ ⑤ ⑥ ⑦
V M 050 - L030 - O T L

Product Series

Power cables

Wire diameter

030: 0.3 mm² cable ≤ 4.5 A current
 050: 0.5 mm² cable ≤ 6 A current
 075: 0.75mm² cable ≤ 7A current
 150: 1.5mm² cable ≤ 11 A current

Wire length

L030: 3m L200: 20m
 L050: 5m L250: 25m
 L100: 10m L300: 30m
 L150: 15m

Cable material

L: Standard cable (bended over 200W times)
 H: Flexible cable (bended over 1000W times)

Drive end plug

N: None (bare wire/U-type terminal)
 T: with forked cold-pressed terminals or pre-insulated tube-type terminals

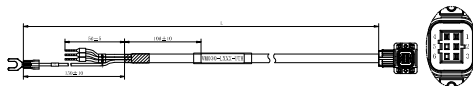
Motor end plug

A: 16M-4A (4-core plastic injection one-shot molded air plug)
 K: 3108A18-10S (4-core 90 degree bent air plug)
 H: 3108A20-18S (9-core 90 degree bent air plug)
 O: SC-MC6S-AC (crescent-shaped motor connector Positive outlet 6PIN)
 OB: with holding brake like O
 U: SC-MC6S-AB (crescent-shaped motor connector 6PIN)
 UB: with holding brake like U

Motor power cable

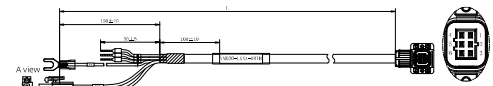
VM030-④-UT⑦

40 mm flange
 Motor power cable without holding brake



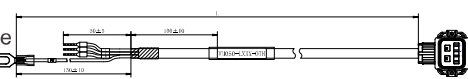
VM030-④-UBT⑦

40 mm flange Motor power cable with holding brake



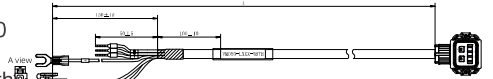
VM050-④-OT⑦

60/80 flange
 Motor power cable without holding brake



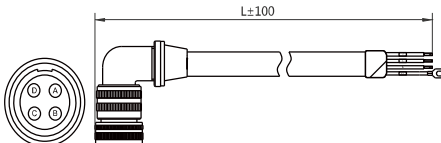
VM050-④-OBT⑦

60/80 flange Motor power cable with holding brake



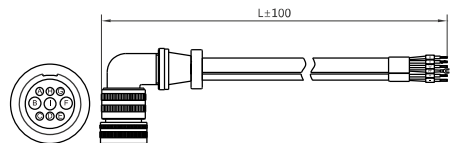
VM150-④-KN⑦

110/130 flange
 Motor power cable without holding brake

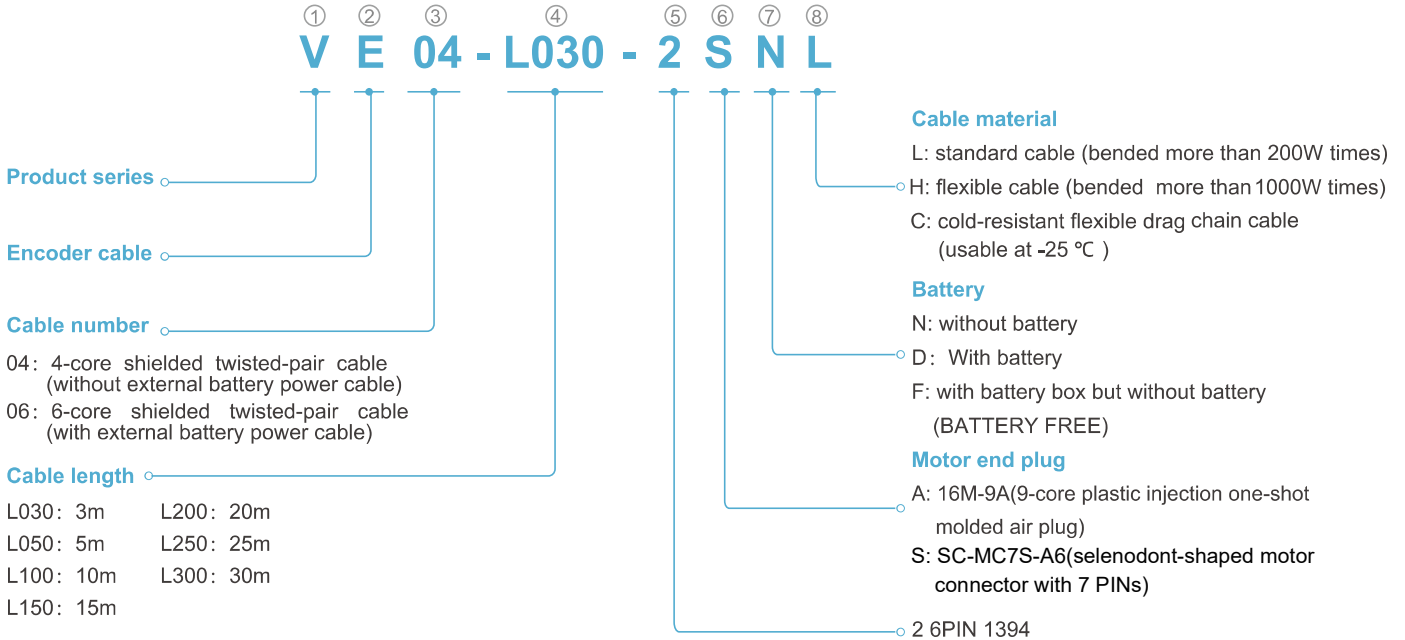


VM150-④-HN⑦

110/130 flange
 Motor power cable with holding brake

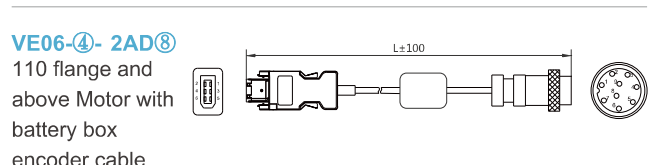
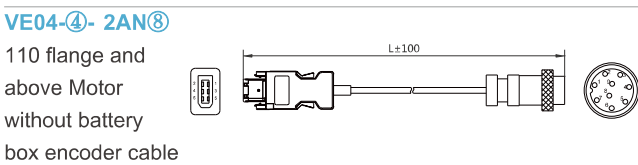
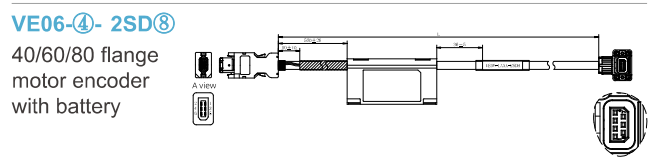
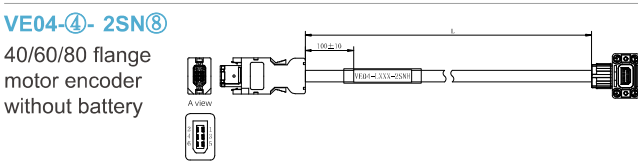


Encoder cable naming rules



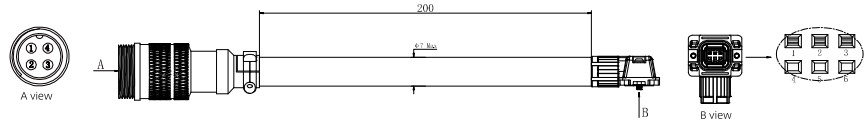
Note: If the length of the encoder wire (5) (6) defined as "2S" is longer than 15 meters, please use the encoder wire whose (5) (6) is defined as "2A" plus adapter cable.

Encoder cable

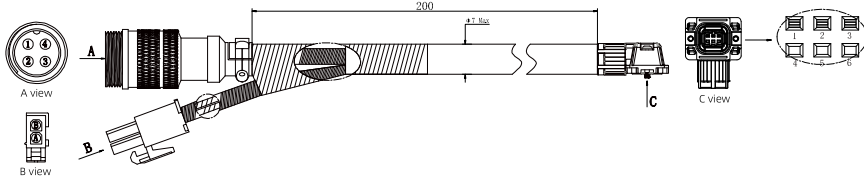


patch cord

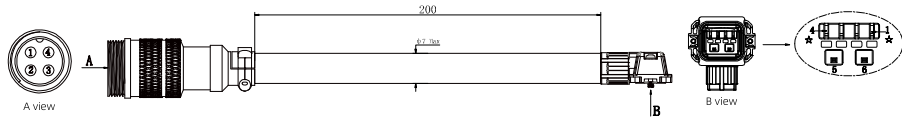
D-VM050-L020-A1-L
 VM7 to V7E
 40 flange power
 adapter cable (0.2m)



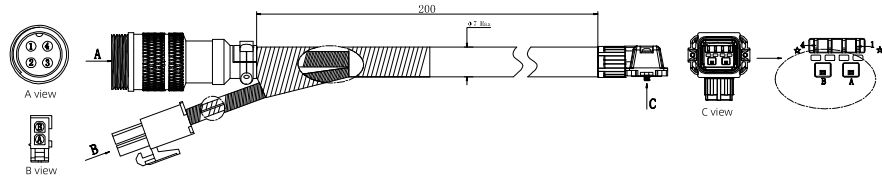
D-VM050-L020-AB2-L
 VM7 to V7E
 40 flange with holding
 brake power
 adapter cable (0.2m)



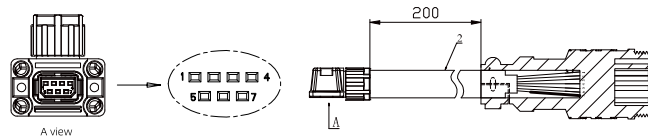
D-VM050-L020-AC1-L
 VM7 to V7E
 60/80 flange power
 adapter cable (0.2m)



D-VM050-L020-AC2-L
 VM7 to V7E
 60/80 flange with
 holding brake power
 adapter cable (0.2m)



VEF07-L020-ANL
 VM7 to V7E
 40/60/80 flange
 encoder adapter
 cable (0.2m)



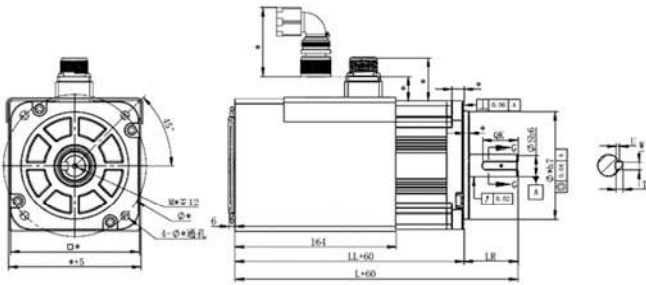
Brake Resistor Type

Model	Brake Voltage	Built-in resistor	External resistor min.	External resistor max.
SD710-1R8A	380V	none	40Ω	200Ω
SD710-3R3A	380V	none	40Ω	100Ω
SD710-5R5A	380V	40Ω 60W	25Ω	70Ω
SD710-7R6A	380V	40Ω 60W	15Ω	50Ω
SD710-9R5A	380V	40Ω 60W	15Ω	40Ω
SD710-3R8D	700V	80Ω 60W	55Ω	180Ω

Motor Fan Column

All models of 110/130 motors can be equipped with optional fans, and those with fans will be added an "F" after the original specifications.

Motor size with optional fan



Fan specifications

	F12038N27A230
Voltage level V	230±15AC
Rated current A	0.135A
Rated air delivery CFM	89
Rated speed rpm	2650

The optional fan increases the length of the motor body by 60mm, while the rest of the dimensions remain the same.

Brake Column

	Model	Static torque N.m	Rated voltage V	Rated current A
40	Z092-S040B(24V)0.38G8.5-001	0.38	24±10%	0.25
60	Z029-S060B(24V)1.5G12	1.5	24±10%	0.32
80	Z122-S080B(24V)3.8G16-002	3.8	24±10%	0.35
110	Z029-S110B(24V)10G21	10	24±10%	0.81
130	Z092-S130B(24V)16C25-002	16	24±10%	1

Applications



Printing & Packaging



3C Electronics



Carving machine



Woodworking machine



Mechanical arm

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Official Website

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