VEICHI

SD700 Series

High-performance Servo System



VEICHI

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Official Website

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About Us

Veichi Electric (Stock Code: 688698) specializes in electrical transmission and industrial control, operating as an integrated high-tech enterprise in R&D, production, and sales of industrial automation products. With a vision to lead in smart industry and green energy solutions, the company leverages its R&D and manufacturing hubs in Suzhou, additional R&D centers in Shenzhen and Xi'an, and wholly-owned subsidiaries overseas, consistently serving customers worldwide with competitive and reliable solutions.

Under the "One Core, Two New Drivers" strategy, Veichi focuses on industrial automation, offering AC drives, servo systems, and control systems widely applied across heavy and light industries, as well as high-end equipment sectors, supporting the digital and intelligent transformation of manufacturing with its tailored solutions. Simultaneously, in two emerging fields, it provides one-stop solutions for humanoid, collaborative, and mobile robots in embodied intelligence, while in green energy, it delves into segments like photovoltaic, energy storage, and hydrogen energy, to "connect every device with green power," fostering a synergistic growth between core operations and new ventures.

Sustained R&D has yielded a portfolio of proprietary patented technologies including silicon carbide application, HF injection, motor controls and protections (auto-tuning, flying-start, high-speed flux-weakening, V/F control, vector control), high-density water-cooling layout, and IGBT drive protection. As of September 30, 2025, Veichi holds 234 patents, with 66 for invention.

Over two decades of steady growth, Veichi has earned numerous certifications and accolades from national and regulatory authorities, including "High-Tech Enterprise," "Postdoctoral Research Workstation," and provincial honors like "Engineering Technology Research Center," "Enterprise Technology Center," and "Industrial Internet Development Demonstration Enterprise (Benchmark Factory Category)."

Guided by its mission to "Drive Smart Industry, Co-create a Green Future," Veichi will continue to intensify R&D and advance into high-performance, high-reliability fields to propel global progress.

2005
- Start of business in Shenzhen
- First generation of AC drive launched

2016
- Suzhou VEICHI Phase I put into operation
- First-generation motion control system successfully launched

2019
- Restructured into a joint-stock company
- VEICHI overseas subsidiary established, marking the start of global expansion

2020
- Listed on the Science and Technology Innovation Board (STAR Market)
- Recognized as a provincial SRDI "Little Giant" enterprise

2021
- VEICHI-controlled subsidiary established, enhancing industrial chain integration
- Recognized as a SRDI "Little Giant" enterprise

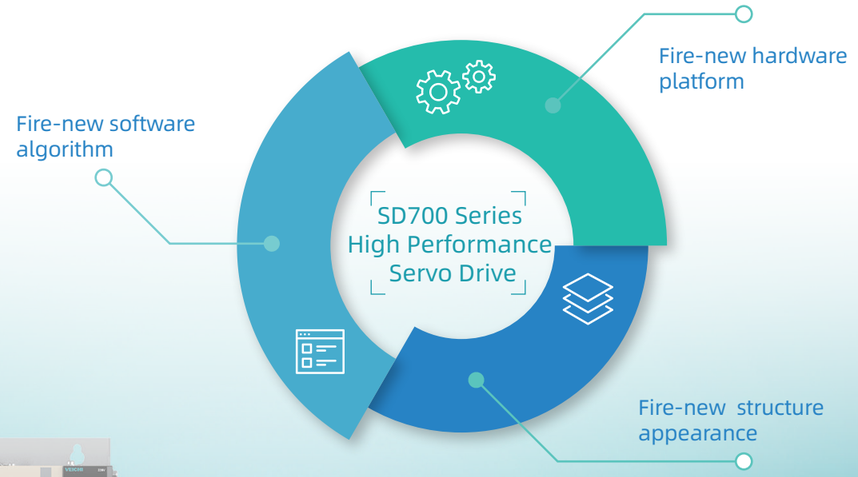
2022
- Xi'an R&D Center established
- VEICHI Digital Energy subsidiary founded, digitalizing the green energy
Integrated power solutions for humanoid/ collaborative/mobile robots launched, initiating deployment in the robotics sector

2023
- Suzhou VEICHI Phase II put into operation
- VEICHI Medical Equipment subsidiary established, expanding into the healthcare sector

2024
- Strategic acquisition of Changzhou Jiteng, entering the port and marine sector
- "One Core, Two New Drivers" development strategy adopted

2025
- Suzhou VEICHI Phase III digital production base put into operation
- Changzhou high-end electrical equipment production base topped out
- Jiujiang smart production base groundbreaking ceremony held

SD700 Series
High-Performance Servo System

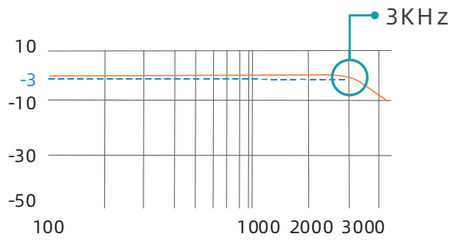




Product Features

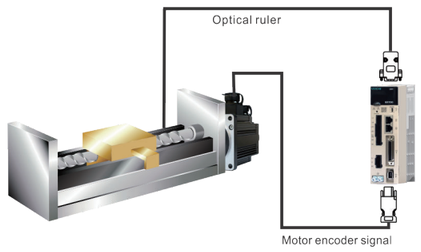
3KHz speed loop bandwidth

Unique current loop algorithm 1ms ultra-fast settling time



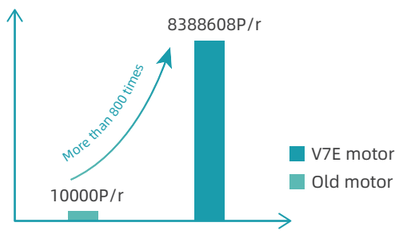
Full closed-loop mode

External encoder/linear scale ready
Reduced mechanical backlash error
Standard across all models



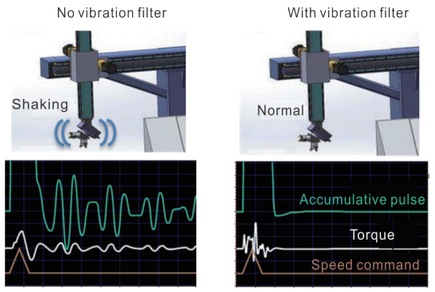
23-Bit absolute encoder

8,388,608 pulses/revolution
2.5 Mpps high-speed communication
Precise positioning & smooth low-speed operation
Position retention after power-off



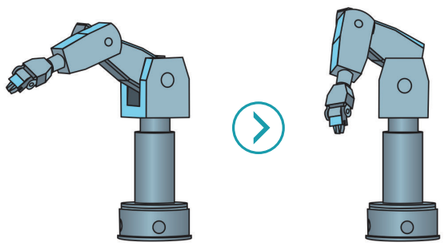
Low frequency vibration suppression

0Hz~100Hz vibration suppression adjustable
Minimized stop-shaking & end-point sway
Ideal for injection molding robots & stacker cranes.



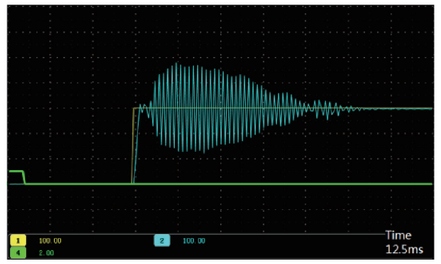
Robust control

Advanced adaptive control algorithm 30 × load inertia variation tolerance without re-tuning
Plug-and-Play operation for robotic arms



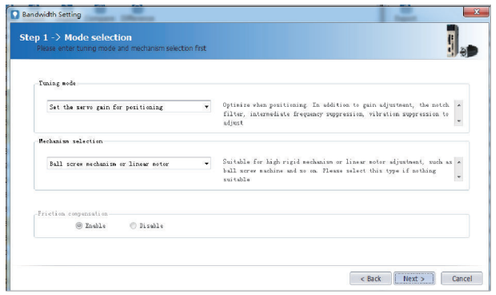
Auto notch filter setting

Setup completed within 70ms without complex analysis
Effective mechanical resonance and vibration suppression
Ideal for high-response applications like machine tools



Intelligent setup

Guided auto-tuning for simplified configuration
Multiple adjustment modes for different mechanisms
Optimized performance for various process requirements.



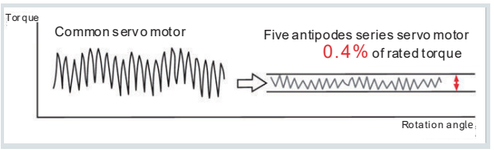
Comprehensive bus communication support

RS-485, EtherCAT and CANopen
MECHATROLINK-II/III protocols
PROFINET-ready



Enhanced motor performance

10-pole rotor and 12-slot stator design
Special magnetic circuit for less cogging
Minimal torque ripple for smooth low-speed operation
Stable performance in reverse rotation



Compact & high-dynamic motors

Advanced manufacturing and optimized magnetic design
Up to 2cm shorter in length with 5°C~10°C lower temperature rise
Enhanced shaft runout accuracy and improved cable outlet
Full IP67 protection across all series



V7E series

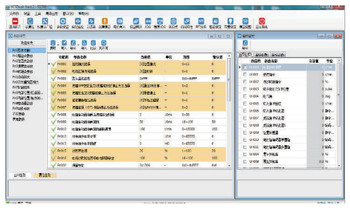


VM7 series

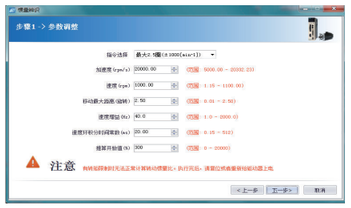
Example: 400W brake model shortened by approx. 20mm

Powerful PC software

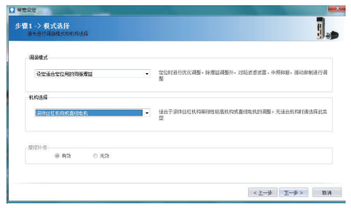
USB communication for easy drive-computer connection



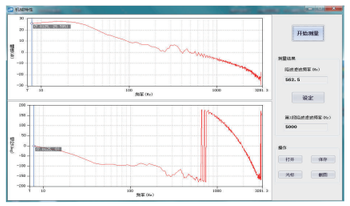
Batch parameter reading and writing



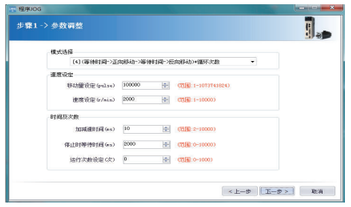
Inertia identification



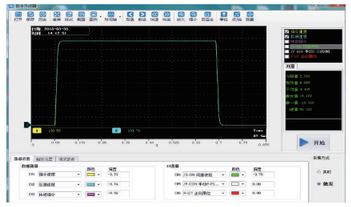
PID tuning for different mechanical structures



Mechanical characteristics analysis, automatic resonance suppression



Internal position loop JOG program



Multi-channel real-time oscilloscope (125μs sampling)

Servo Drive Naming Rules

SD 700 - 3R3 A - P A - FS

SD：
Servo drive

700：
High-performance servo drive series

Rated Current

（A）220VAC				（D）400VAC							
Model	Rated current	Model	Rated current	Model	Rated current	Model	Rated current	Model	Rated current	Model	Rated current
1R8	1.8A	120	12A	3R8	3.8A	240	24A	700	70A	321	320A
3R3	3.3A	160	16A	6R0	6.0A	300	30A	800	80A	421	420A
5R5	5.5A			8R4	8.4A	400	40A	121	120A	521	520A
7R6	7.6A			110	11A	500	50A	171	170A		
9R5	9.5A			170	17A	600	60A	221	220A		

FS Function Safety
FS: With FS function
Blank: No STO function

Encoder Type
A: Absolute type
B: Biss type

Drive Type
P：Pulse type
S：Standard type
C：CANopen bus type
E：EtherCAT bus type
M: MECHATROLINK Ⅱ bus type
L：MECHATROLINK III bus type
N：PROFINET bus type
F：Multi IO interface type

Rated Voltage
A：220VAC
D：400VAC

Code	Model	Pulse Input	16bit AI	Full Closed Loop	RS485	CANopen	EtherCAT	MECHATRO LINK Ⅱ	MECHATRO LINK III	PROFINET
P	Pulse type	√	O	√	√	×	×	×	×	×
S	Standard type	√	√	√	√	√	×	×	×	×
C	CANopen type	√	O	×	√	√	×	×	×	×
E	EtherCAT type	×	×	×	√	×	√	×	×	×
M	MECHATROLINK Ⅱ type	×	×	×	√	×	×	√	×	×
L	MECHATROLINK III type	×	×	×	√	×	×	×	√	×
N	PROFINET type	×	×	×	√	×	×	×	×	√

Note：
○ indicates 12-bit AI instead of 16-bit；
△ indicates optional configuration；
√ indicates standard configuration
× indicates unavailable configuration

Drive Power & Housing

Model	Input	Output		Housing
	Rated Voltage（V）	Rated Current（A）	Instantaneous Current（A）	
SD700-1R8A	Single-phase220	1.8	6.3	A
SD700-3R3A	Single-phase220	3.3	11.6	
SD700-5R5A	Single / three-phase 220	5.5	16.5	B
SD700-7R6A	Single / three-phase 220	7.6	22.8	
SD700-9R5A	Three-phase 220	9.5	23.8	
SD700-120A	Three-phase 220	12.0	36.0	C
SD700-160A	Three-phase 220	16.0	40.0	
SD700-3R8D	Three-phase 400	3.8	11.4	B
SD700-6R0D	Three-phase 400	6.0	18.0	C
SD700-8R4D	Three-phase 400	8.4	25.2	
SD700-110D	Three-phase 400	11.0	27.5	
SD700-170D	Three-phase 400	17.0	42.5	D
SD700-240D	Three-phase 400	24.0	60.0	
SD700-300D	Three-phase 400	30.0	70.0	
SD700-400D	Three-phase 400	40.0	80.0	E
SD700-500D	Three-phase 400	50.0	115.0	F
SD700-600D	Three-phase 400	60.0	120.0	
SD700-700D	Three-phase 400	70.0	140.0	G
SD700-800D	Three-phase 400	80.0	160.0	
SD700-121D	Three-phase 400	120.0	240.0	
SD700-171D	Three-phase 400	170.0	340.0	H
SD700-221D	Three-phase 400	220.0	440.0	I
SD700-321D	Three-phase 400	320.0	640.0	J
SD700-421D	Three-phase 400	420.0	840.0	K
SD700-521D	Three-phase 400	520.0	1040.0	L

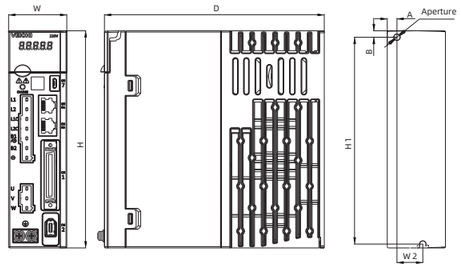
Servo System Matching Table

Servo Drive	Servo Motor(V7E)	Servo Motor(V9E)
 SD700-1R8A-**	V7E-L04A-R1030-** V7E-L04A-R2030-**	V9E-*06A-R2030-**
 SD700-3R3A-**	V7E-*06A-R4030-** V7E-L06A-R6030-**	V9E-*06A-R4030-** V9E-*06A-R6030-**
 SD700-5R5A-**	V7E-*08A-R7530-** V7E-*08A-1R030-** V7E-M13A-1R020-**	V9E-*08A-R7530-** V9E-L10A-1R030-** V9E-M13A-1R020-** V9E-M13A-R8515-**
 SD700-7R6A-**	V7E-M11A-1R230-** V7E-M11A-1R530-** V7E-M13A-1R520-**	V9E-*08A-1R030-** V9E-C08A-2R030-*1 V9E-L13A-1R530-** V9E-M11A-1R230-** V9E-M11A-1R530-** V9E-M13A-1R520-**
 SD700-9R5A-**	V7E-M11A-1R830-** V7E-M13A-1R315-** V7E-M13A-2R020-**	V9E-L10A-1R530-** V9E-L13A-2R030-** V9E-M11A-1R830-** V9E-M13A-2R020-** V9E-M13A-1R315-**
SD700-120A-**	V7E-M18A-2R915-**	V9E-L10A-2R030-** V9E-M13A-1R815-** V9E-M18A-2R915-**
 SD700-160A-**	V7E-M13A-3R020-** V7E-M18A-4R415-**	V9E-L10A-2R530-** V9E-M13A-3R020-** V9E-M13A-2R315-**
 SD700-3R8D-**	V7E-M13D-1R020-**	V9E-L10D-1R030-** V9E-M11D-1R230-** V9E-M13D-1R020-** V9E-M13D-R8515-**
 SD700-6R0D-**	V7E-M13D-1R520-** V7E-M13D-1R315-** V7E-M13D-2R020-**	V9E-L10D-1R530-** V9E-L10D-2R030-** V9E-L13D-1R530-** V9E-L13D-2R030-** V9E-M11D-1R530-** V9E-M11D-1R830-** V9E-M13D-1R520-** V9E-M13D-2R020-** V9E-M13D-1R315-**
 SD700-8R4D-**	V7E-M13D-3R020-** V7E-M18D-2R915-**	V9E-L10D-2R530-** V9E-L13D-3R030-** V9E-M13D-3R020-** V9E-M13D-1R815-** V9E-M18D-2R915-**
 SD700-110D-**	V7E-M18D-4R415-**	V9E-L13D-4R030-** V9E-M13D-2R315-** V9E-M18D-4R415-**
 SD700-170D-**	V7E-M18D-5R515-** V7E-M18D-7R515-**	V9E-L13D-5R030-** V9E-M18D-4R020-** V9E-M18D-5R515-**

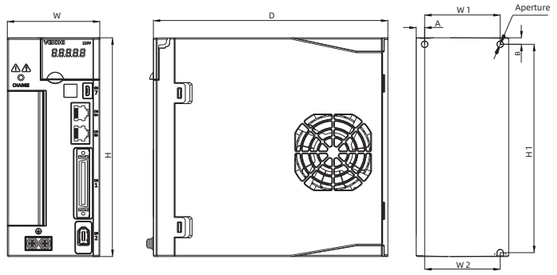
Servo Drive	Servo Motor(V7E)	Servo Motor(V9E)
 SD700-240D-**	VM7-M20D-01115-D1FNS VM7-M20D-01115-D2FN	V9E-M18D-6R020-** V9E-M18D-7R515-**
 SD700-300D-**	VM7-M20D-01515-D1FNS VM7-M20D-01515-D2FN	V9E-M18D-7R520-**
 SD700-400D-**	VM7-M20D-02015-D1FN VM7-M20D-02015-D2FN	---
 SD700-500D-**	VM7-M20D-02215-D1FN VM7-M20D-02215-D2FN	---
 SD700-600D-**	VM7-M26D-03015-D1FN VM7-M26D-03015-D1FN	---
 SD700-700D-** SD700-800D-**	VM7-M26D-03715-D1FN VM7-M26D-03715-D2FN	---
 SD700-121D-**	VM7-M26D-04515-D1FN VM7-M26D-04515-D2FN VM7-M26D-05515-D1FN VM7-M32D-05510-S1FN	---
 SD700-171D-**	VM7-M32D-07510-S1FN VM7-H40D-07506-S1W VM7-M32D-09010-S1FN	---
 SD700-221D-**	VM7-M32D-10815-S1FN VM7-M32D-11010-S1FN	---
 SD700-321D-**	Consult the manufacturer	---
 SD700-421D-**	Consult the manufacturer	---
 SD700-521D-**	Consult the manufacturer	---

** indicates that the drive communication type, motor inertia, or encoder type, and it will not affect the compatibility between the motor and the drive.

Appearance & Installation Dimension

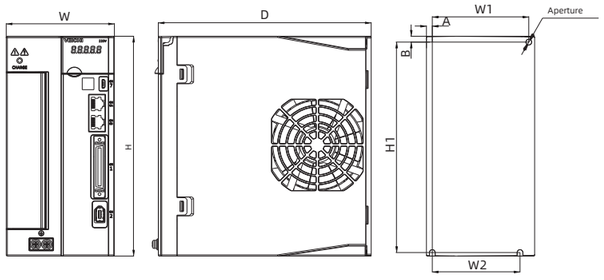


Housing A

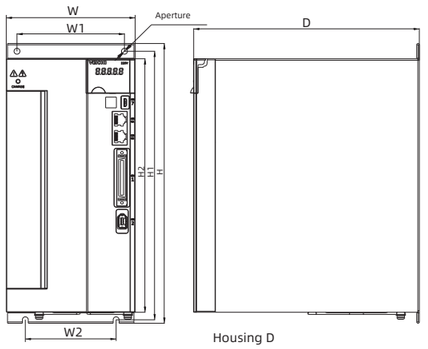


Housing B

Housing	Model	Overall Dimension(mm)			Installation Dimension (mm)						Aperture
		W	H	D	W1	W2	H1	H2	A	B	
A	SD700-1R8A-**	45	168	170	\	20	160	\	7.5	5	2-M4
	SD700-3R3A-**										
B	SD700-5R5A-**	71	168	180	58	58	160	\	6.5	5	3-M4
	SD700-7R6A-**										
	SD700-9R5A-**										
	SD700-2R5D-**										
	SD700-3R8D-**										

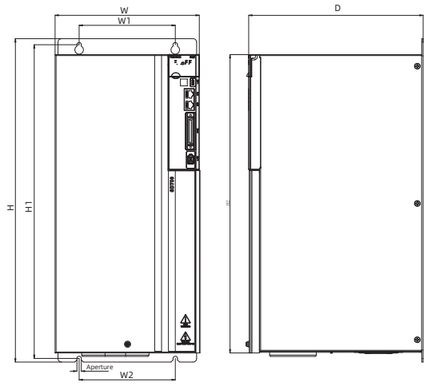


Housing C



Housing D

Housing	Model	Overall Dimension(mm)			Installation Dimension (mm)						Aperture
		W	H	D	W1	W2	H1	H2	A	B	
C	SD700-120A-**	92.5	188	182	82.5	75	180	\	5	5	3-M4
	SD700-160A-**										
	SD700-6R0D-**										
	SD700-8R4D-**										
	SD700-110D-**										
D	SD700-170D-**	120	260	210	100	84.5	250	236	\	\	4-M5
	SD700-240D-**										
	SD700-300D-**										



Housing	Model	Overall Dimension(mm)			Installation Dimension (mm)						Aperture
		W	H	D	W1	W2	H1	H2	A	B	
E	SD700-400D-**	180	413	240	125	125	404.5	413	\	\	4-M6
F	SD700-500D-**	210	471	254	140	140	457	434.5	\	\	4-M6
	SD700-600D-**										
G	SD700-700D-**	240	558	310	176	176	544	520	\	\	4-M6
	SD700-800D-**										
	SD700-121D-**										
H	SD700-171D-**	270	638	350	195	195	615	580	\	\	4-M10
I	SD700-221D-**	350	738	405	220	220	715	680	\	\	4-M10
J	SD700-321D-**	360	940	495	200	200	911	880	\	\	4-M18
K	SD700-421D-**	370	1140	565	200	200	1111	1080	\	\	4-M18
L	SD700-521D-**	420	1250	590	240	240	1213	1180	\	\	4-M20

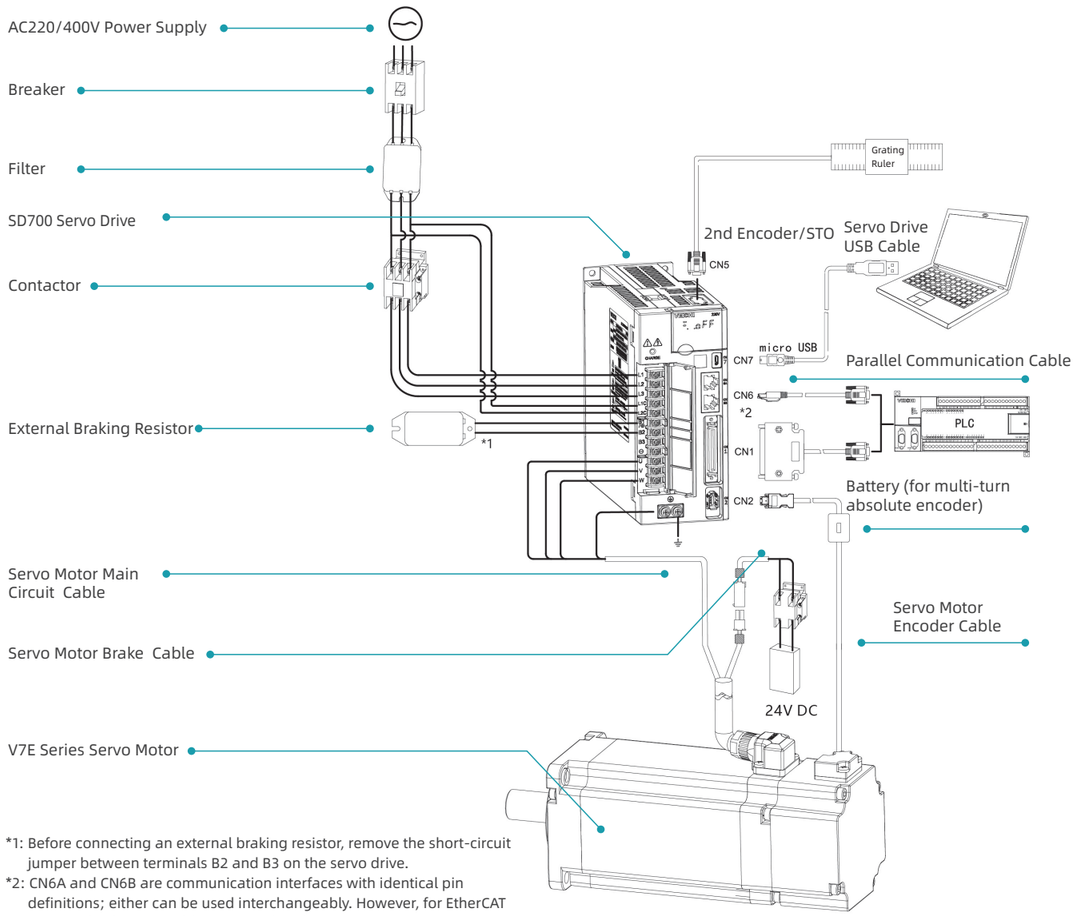
Drive Specifications

Items			Specifications
Control mode			IGBT PWM control; sine wave current drive mode
Feedback	Rotating motor		Serial encoder: 17-bit, 23-bit absolute encoder
Environmental condition	Ambient temperature		-5℃ ~ 55℃(derating use between 55℃ ~ 60℃)
	Storage temperature		-20℃ ~ 85℃
	Ambient humidity		< 95%RH (no freezing or condensation)
	Storage humidity		< 95%RH (no freezing or condensation)
	Vibration resistance		4.9m/s²
	Impact resistance		19.6m/s²
	Protection class		IP20
	Cleanliness		No corrosive gases or flammable gases
			No water, oil or chemicals
			Less dust, ash, salt, and metal powders
	Altitude		< 1000m (derating use between 1000m~2000m)
	Others		No static interference, strong electric field, strong magnetic sound, radiation and so on
Standards			EN 61800-5-1:2007 EN 61800-3:2004/A1:2012
Installation type			Base mounting for all models
Performance	Speed control range		1:6000 (minimum controllable speed under rated torque without stopping)
	Speed fluctuation rate	Load fluctuation	< ±0.01% of rated speed (Load fluctuation: 0%~100%)
		Voltage fluctuation	0% of rated speed (rated voltage±10%)
		Temperature fluctuation	< ±0.1% of rated speed (temperature fluctuation:25±25℃)
	Torque control accuracy		±1%
Soft start time			0s~30s(separate ACC/DEC time setting)
Communication	Host	Method	RS485, CANOpen, EtherCAT, MECHATROLINK- II , MECHATROLINK-III, PROFINET etc.
		Axis address	Parameter setting
	USB	Device	Computer
			USB1.1 (12M)
Display			CHARGE indicator
Keypad			Button switch ×4

Items						Specifications
Input/ output signal	Encoder freq-divided pulse output					Phase A, B, C: Linear drive pulse count settable
	Sequential control input signal	Assignable input signal				Working voltage range: 24V±20% DC
						Input No.: 9
						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)
	Sequential control input signal	Fixed output				Working voltage range: 5V~30V DC
						Output No.: 1
						Output signal: Alarm (/ALM)
		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						Valid under the main power OFF, servo alarm, servo OFF, and overtravel (only for AC 220V models in A,B housing)
Power regeneration						Built-in , see “Brake Resistor” section
Over travel (OT) prevention						Dynamic brake (DB) stop, DEC stop, or coasting stop at /P-OT and /N-OT signals
Protections						Over current, over voltage, under voltage, overload, regenerative error, etc
Auxiliary functions						Gain adjustment, error history, JOG operation, home, etc
Control	Position control	Feedforward compensation				0%~100%
		Position coincidence range				0~1073741824 (reference unit)
		Input signal	Reference pulse	Pulse pattern		Sign + Pulse Train, CW + CCW Pulse Train, 90° Phase-Difference Two-Phase Pulse
				Input pattern		Linear drive, open collector
				Maximum input frequency	Liner	Sign + Pulse Train, CW + CCW Pulse Train: 4 Mpps
						90° Phase-Difference Two-Phase Pulse: 1 Mpps
					Open collector	Sign + Pulse Train, CW + CCW Pulse Train: 200kpps
						90° Phase-Difference Two-Phase Pulse: 50 kpps
				Input multiplier		1~100 times
			Clear signal			Position deviation clear

Items				Specifications
Control	speed control	Soft start time		0s~30s(separate ACC/DEC time setting)
		Input signal	Voltage	Maximum voltage: ±10V (FWD operation under positive reference)
				Rated speed at 6V DC [factory setting]
				Input gain settable
			Impedance	About 14KΩ
		Internal control	Loop time	30μs
			Direction	Up to /SPD-D
			Reference	Up to /SPD-A and /SPD-D
				Stop or change to other control modes when /SPD-A and SPD-B are OFF
	Torque control	Input signal	Voltage	Maximum voltage: ±10V (FWD operation under positive reference)
				Rated torque at 6V DC [factory setting]
				Input gain settable
			Impedance	About 14KΩ
			Loop time	16μs

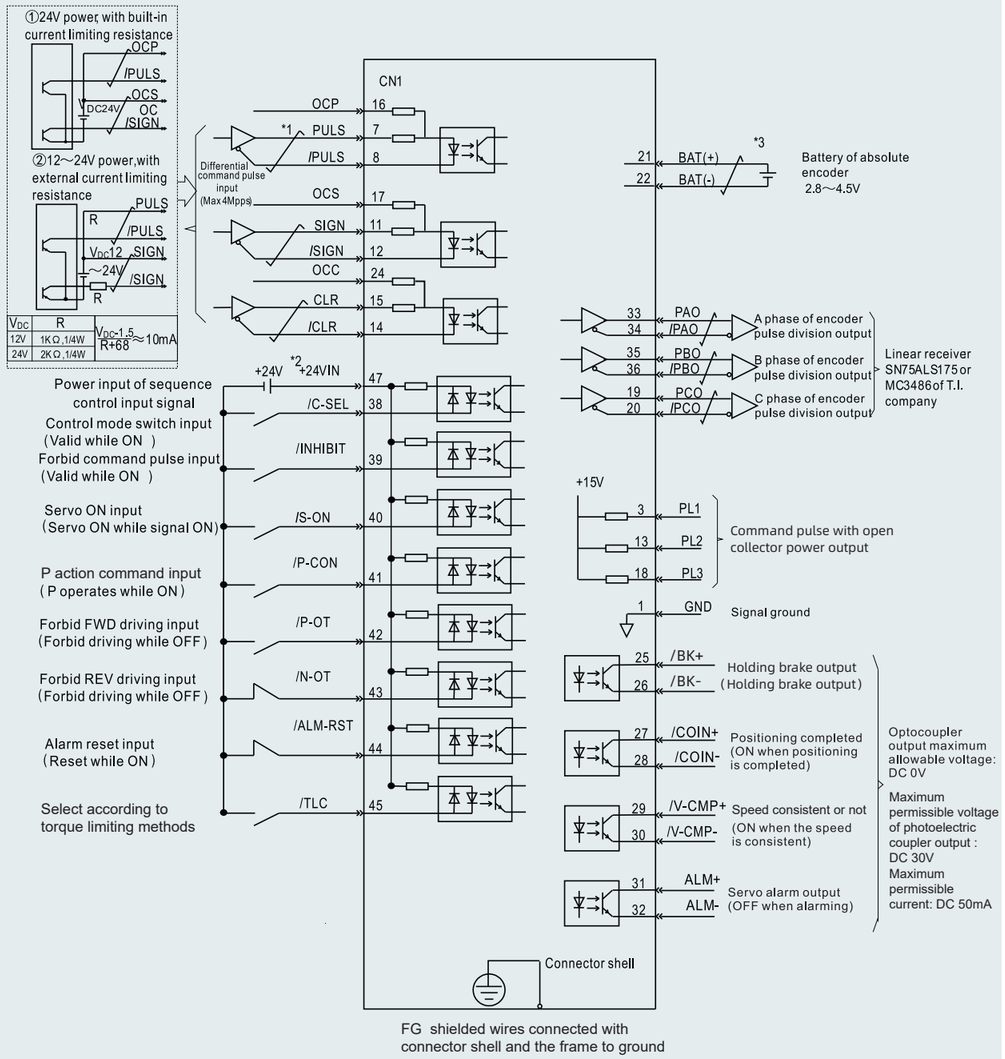
System Configuration



*1: Before connecting an external braking resistor, remove the short-circuit jumper between terminals B2 and B3 on the servo drive.

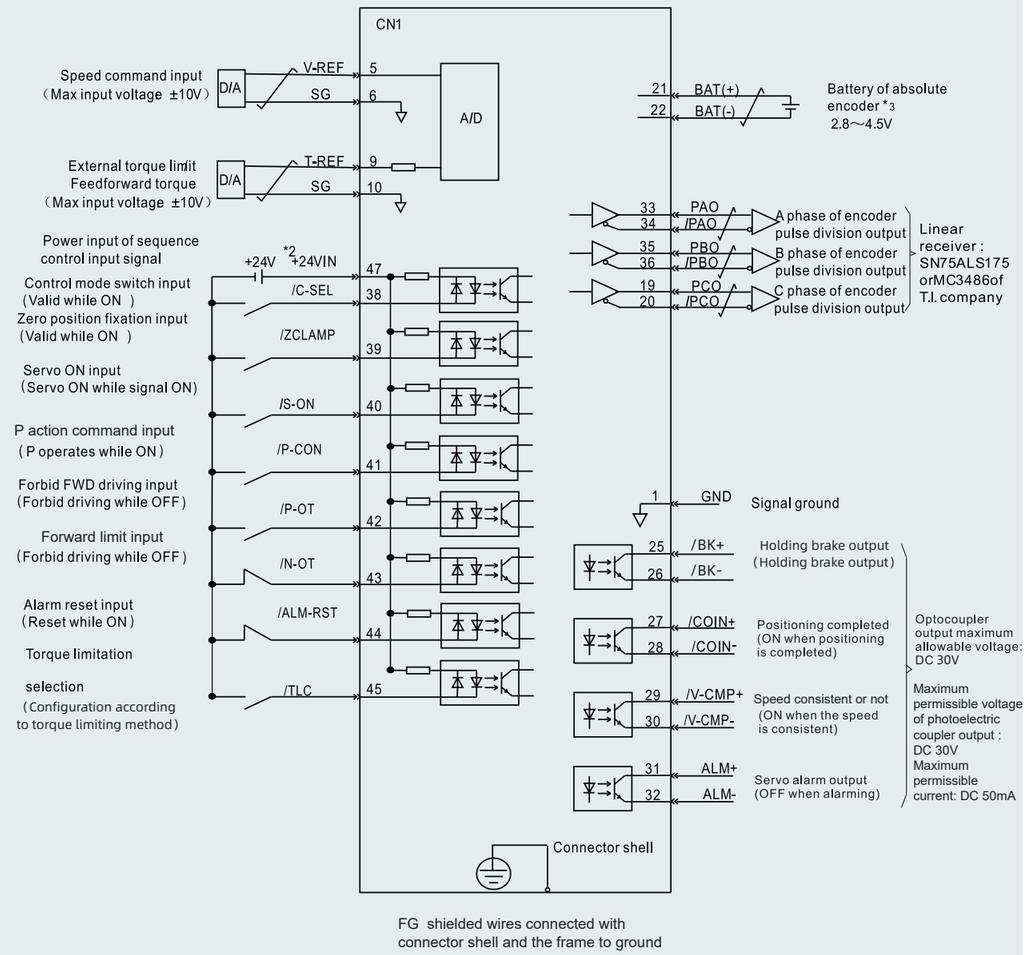
*2: CN6A and CN6B are communication interfaces with identical pin definitions; either can be used interchangeably. However, for EtherCAT communication, bus wiring must strictly follow an upstream-down-out sequence.

Standard Wiring-Position Mode



*1. ≠ is the twisted shields.
*2. DC24V power should be prepared by user.Double insulation or reinforced insulation equipments should be used for DC24V power.
*3. Connected while using absolute encoder.But never connect with CN1-21, CN1-22 pins while using encoder cables with battery unit
*4. Output signal should be received by linear receiver.
（Note）While using 24V braker， DC24V power should be separated from the power for input and output signal （CN1）.Please prepare other power individually, otherwise,there may be misoperation of input and output signal while power on.

Standard Wiring-Speed/Torque Mode



*1. ≠ is the twisted shields.
*2. DC24V power should be prepared by user.Double insulation or reinforced insulation equipments should be used for DC24V power.
*3. Connected while using absolute encoder.But never connect with CN1-21, CN1-22 pins while using encoder cables with battery unit
*4. Output signal should be received by linear receiver.
（Note）While using 24V braker， DC24V power should be separated from the power for input and output signal （CN1）.Please prepare other power individually, otherwise,there may be misoperation of input and output signal while power on.

Servo Motor Naming Rules

V7E - L 06 A - R40 30 - D 1 □

Product Series
V7E
VM7

Inertia Level
L: Llow inertia
M: Medium inertia
H: High inertia

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 powero

Mark	Power	Mark	Power	Mark	Power	Mark	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

Internal Management Code

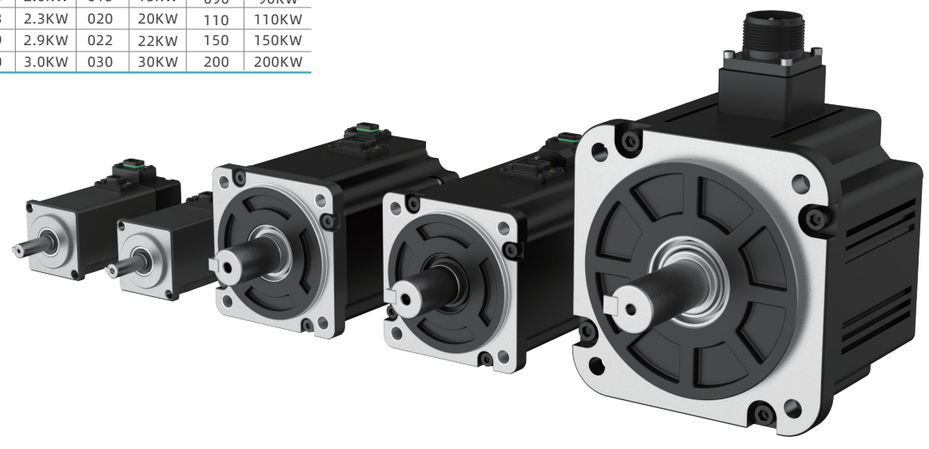
	Axis Key		Oil Seal		Brake	
No.	W/O	WITH	WITH	W/O	WITH	W/O
1		•	•			•
2		•	•		•	

Encoder Type
D: 23bit multi-turn absolute optical encoder
Q: 17bit single-turn absolute magnetic encoder
R: 17bit multi-turn absolute magnetic encoder
S: 20bit multi-turn absolute optical cross shaft encoder

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

Motor Braking Power (Estimated)

Flange	Braking power
40	7W
60	10W
80	15W
110	15W
130	20W
180	30W



V7E Servo Motor Specifications (General)

V7E Model	Voltage（V）	Power（W）	Rated Torque (N·m)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A)	Max Current (A)	Moment of Inertia (kg·cm²)
V7E-L04A-R1030-□1	220	100	0.32	3000	6000	1	3	0.051
V7E-L04A-R1030-□2	220	100	0.32	3000	6000	1	3	0.052
V7E-L06A-R2030-□1	220	200	0.64	3000	6000	1.7	5.1	0.18
V7E-L06A-R2030-□2	220	200	0.64	3000	6000	1.7	5.1	0.2
V7E-L06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.34
V7E-L06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.36
V7E-M06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.67
V7E-M06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.69
V7E-L06A-R6030-□1	220	600	1.91	3000	5000	3.3	9.9	0.51
V7E-L06A-R6030-□2	220	600	1.91	3000	5000	3.3	9.9	0.53
V7E-L08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	1.02
V7E-L08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	1.13
V7E-M08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	2.3
V7E-M08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	2.41
V7E-L08A-1R030-□1	220	1000	3.18	3000	5000	5	16.5	1.34
V7E-L08A-1R030-□2	220	1000	3.18	3000	5000	5	16.5	1.45
V7E-M11A-1R230-□1	220	1200	3.82	3000	5000	6.3	18.9	4.91
V7E-M11A-1R230-□2	220	1200	3.82	3000	5000	6.3	18.9	5.52
V7E-M11A-1R530-□1	220	1500	4.78	3000	5000	7.6	22.8	6.1
V7E-M11A-1R530-□2	220	1500	4.78	3000	5000	7.6	22.8	6.71
V7E-M11A-1R830-□1	220	1800	5.73	3000	5000	9.3	27.9	7.28
V7E-M11A-1R830-□2	220	1800	5.73	3000	5000	9.3	27.9	7.89
V7E-M13A-1R020-□1	220	1000	4.78	2000	3000	4.9	14.7	12.98
V7E-M13A-1R020-□2	220	1000	4.78	2000	3000	4.9	14.7	15.12
V7E-M13A-1R520-□1	220	1500	7.16	2000	3000	7.1	21.3	18.38
V7E-M13A-1R520-□2	220	1500	7.16	2000	3000	7.1	21.3	20.52
V7E-M13A-2R020-□1	220	2000	9.55	2000	3000	9.4	28.2	25.58
V7E-M13A-2R020-□2	220	2000	9.55	2000	3000	9.4	28.2	27.72
V7E-M13A-3R020-□1	220	3000	14.33	2000	3000	14	42	36.38
V7E-M13A-3R020-□2	220	3000	14.33	2000	3000	14	42	38.52
V7E-M18A-2R915-□1	220	2900	18.46	1500	2000	12	30	49.56
V7E-M18A-2R915-□2	220	2900	18.46	1500	2000	12	30	56.05
V7E-M18A-4R415-□1	220	4400	28.01	1500	1800	16	40	68.9
V7E-M18A-4R415-□2	220	4400	28.01	1500	1800	16	40	75.39
V7E-M13D-1R020-□1	380	1000	4.78	2000	3000	3.2	9.6	12.98
V7E-M13D-1R020-□2	380	1000	4.78	2000	3000	3.2	9.6	15.12
V7E-M13D-1R520-□1	380	1500	7.16	2000	3000	4.4	13.2	18.38
V7E-M13D-1R520-□2	380	1500	7.16	2000	3000	4.4	13.2	20.52
V7E-M13D-2R020-□1	380	2000	9.55	2000	3000	5.5	16.5	25.58
V7E-M13D-2R020-□2	380	2000	9.55	2000	3000	5.5	16.5	27.72
V7E-M13D-3R020-□1	380	3000	14.33	2000	3000	8.3	24.9	36.38
V7E-M13D-3R020-□2	380	3000	14.33	2000	3000	8.3	24.9	38.52
V7E-M18D-2R915-□1	380	2900	18.46	1500	2000	7.1	17.8	49.56
V7E-M18D-2R915-□2	380	2900	18.46	1500	2000	7.1	17.8	56.05

V7E Servo Motor Specifications (General)

V7E Model	Voltage（V）	Power（W）	Rated Torque (N·m)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A)	Max Current (A)	Moment of Inertia (kg·cm²)
V7E-M18D-4R415-□1	380	4400	28.01	1500	2000	10.9	27.3	68.9
V7E-M18D-4R415-□2	380	4400	28.01	1500	2000	10.9	27.3	75.39
V7E-M18D-5R515-□1	380	5500	35.02	1500	2000	13.4	33.5	110.11
V7E-M18D-5R515-□2	380	5500	35.02	1500	2000	13.4	33.5	116.6
V7E-M18D-7R515-□1	380	7500	47.75	1500	2000	17	42.5	156.61
V7E-M18D-7R515-□2	380	7500	47.75	1500	2000	17	42.5	163.09

V7E Servo Motor Specifications (Dedicated)

V7E Model	Voltage（V）	Power（W）	Rated Torque (N·m)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A)	Max Current (A)	Moment of Inertia (kg·cm²)
V7E-L08A-R7520-□1L	220	750	3.58	2000	2500	2.8	8.4	1.34
V7E-L08A-R7520-□2L	220	750	3.58	2000	2500	2.8	8.4	1.45
V7E-L08A-R7530-□1L	220	750	2.38	3000	4000	3.1	9.3	1.02
V7E-L08A-R7530-□2L	220	750	2.38	3000	4000	3.1	9.3	1.13
V7E-M13A-R8515-□1	220	850	5.41	1500	3000	5.4	16.2	12.98
V7E-M13A-R8515-□2	220	850	5.41	1500	3000	5.4	16.2	15.12
V7E-M13A-R8515-□1B	220	850	5.41	1500	3000	5.4	16.2	12.98
V7E-M13A-R8515-□2B	220	850	5.41	1500	3000	5.4	16.2	15.12
V7E-M13A-1R815-□1	220	1800	11.46	1500	3000	10.9	32.7	25.85
V7E-M13A-1R815-□2	220	1800	11.46	1500	3000	10.9	32.7	27.72
V7E-M13A-1R815-□1B	220	1800	11.46	1500	3000	10.9	32.7	25.58
V7E-M13A-1R815-□2B	220	1800	11.46	1500	3000	10.9	32.7	27.72
V7E-M13A-1R315-□1	220	1300	8.28	1500	3000	8.2	24.6	18.38
V7E-M13A-1R315-□2	220	1300	8.28	1500	3000	8.2	24.6	20.52
V7E-M13A-2R315-□1	220	2300	14.64	1500	3000	14	42	36.38
V7E-M13A-2R315-□2	220	2300	14.64	1500	3000	14	42	38.52
V7E-M13A-2R315-□1L	220	2300	14.64	1500	2000	9.5	28.5	36.38
V7E-M13A-2R315-□2L	220	2300	14.64	1500	2000	9.5	28.5	38.52
V7E-M18A-2R915-□1H	220	2900	18.46	1500	3000	16	40	49.56
V7E-M18A-2R915-□2H	220	2900	18.46	1500	3000	16	40	56.05
V7E-M13D-R8515-□1B	380	850	5.41	1500	3000	3.3	9.9	12.98
V7E-M13D-R8515-□2B	380	850	5.41	1500	3000	3.3	9.9	15.12
V7E-M13D-R8515-□1	380	850	5.41	1500	3000	3.3	9.9	12.98
V7E-M13D-R8515-□2	380	850	5.41	1500	3000	3.3	9.9	15.12
V7E-M13D-1R315-□1	380	1300	8.28	1500	3000	4.8	14.4	18.38
V7E-M13D-1R315-□2	380	1300	8.28	1500	3000	4.8	14.4	20.52
V7E-M13D-1R815-□1B	380	1800	11.46	1500	3000	6.6	19.8	25.58
V7E-M13D-1R815-□2B	380	1800	11.46	1500	3000	6.6	19.8	27.72
V7E-M13D-1R815-□1	380	1800	11.46	1500	3000	6.6	19.8	25.58
V7E-M13D-1R815-□2	380	1800	11.46	1500	3000	6.6	19.8	27.72

V7E Servo Motor Specifications (Dedicated)

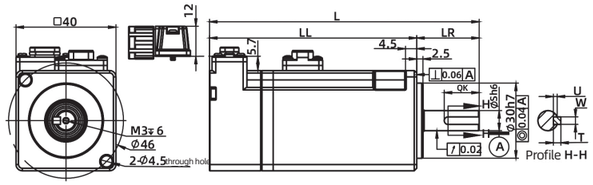
V7E Model	Voltage（V）	Power（W）	Rated Torque (N·m)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A)	Max Current (A)	Moment of Inertia (kg·cm²)
V7E-M13D-2R315-□1L	380	2300	14.64	1500	2000	5.6	16.8	36.38
V7E-M13D-2R315-□2L	380	2300	14.64	1500	2000	5.6	16.8	38.52
V7E-M13D-2R315-□1	380	2300	14.64	1500	3000	8.4	25.2	36.38
V7E-M13D-2R315-□2	380	2300	14.64	1500	3000	8.4	25.2	38.52
V7E-M18D-2R915-□1H	380	2900	18.46	1500	3000	10.7	26.8	49.56
V7E-M18D-2R915-□2H	380	2900	18.46	1500	3000	10.7	26.8	56.05
V7E-M18D-4R415-□1H	380	4400	28.01	1500	3000	16.2	40.5	68.9
V7E-M18D-4R415-□2H	380	4400	28.01	1500	3000	16.2	40.5	75.39
V7E-M18D-5R515-□1H	380	5500	35.02	1500	3000	19	47.5	110.11
V7E-M18D-5R515-□2H	380	5500	35.02	1500	3000	19	47.5	116.6
V7E-M18D-5R515-□1BH	380	5500	35.02	1500	3000	19	47.5	110.11
V7E-M18D-5R515-□2BH	380	5500	35.02	1500	3000	19	47.5	116.6
V7E-M18D-7R515-□1H	380	7500	47.75	1500	3000	27.6	69	156.6
V7E-M18D-7R515-□2H	380	7500	47.75	1500	3000	27.6	69	163.09
V7E-M18D-7R515-□1BH	380	7500	47.75	1500	3000	27.6	69	5156.6
V7E-M18D-7R515-□2BH	380	7500	47.75	1500	3000	27.6	69	163.09

V7E Servo Motor Specifications (High-power)

V7E Model	Voltage（V）	Power	Rated Torque (N·m)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A)	Max Current (A)	Moment of Inertia (kg·cm²)
VM7-M20D-01115-D1FNS	380	11000	70	1500	2000	21	42	70
VM7-M20D-01115-D2FN	380	11000	70	1500	2000	21	42	80
VM7-M20D-01515-D1FNS	380	15000	96	1500	2000	29	58	100
VM7-M20D-01515-D2FN	380	15000	96	1500	2000	29	58	110
VM7-M20D-02015-D1FN	380	20000	127	1500	2000	38.5	77	147
VM7-M20D-02015-D2FN	380	20000	127	1500	2000	38.5	77	157
VM7-M20D-02215-D1FN	380	22000	140	1500	2000	42	84	171
VM7-M20D-02215-D2FN	380	22000	140	1500	2000	42	84	180
VM7-M26D-03015-D1FN	380	30000	191	1500	2000	58	116	372
VM7-M26D-03015-D2FN	380	30000	191	1500	2000	58	116	382
VM7-M26D-03715-D1FN	380	37000	236	1500	2000	72	144	445
VM7-M26D-03715-D2FN	380	37000	236	1500	2000	72	144	461
VM7-M26D-04515-D1FN	380	45000	286	1500	2000	87	174	529
VM7-M26D-04515-D2FN	380	45000	286	1500	2000	87	174	550
VM7-M26D-05515-D1FN	380	55000	350	1500	2000	106	212	639
VM7-M32D-05510-S1FN	380	55000	525	1000	1300	110	215	1370
VM7-M32D-07510-S1FN	380	75000	716	1000	1300	142	280	1830
VM7-H40D-07506-S1W	380	75000	1200	600	720	160	352	5294
VM7-M32D-09010-S1FN	380	90000	859	1000	1300	171	339	2290
VM7-M32D-10815-S1FN	380	108000	690	1500	2000	206	412	1830
VM7-M32D-11010-S1FN	380	110000	1050	1000	1300	199	385	2750

V7E Servo Motor Installation Dimensions

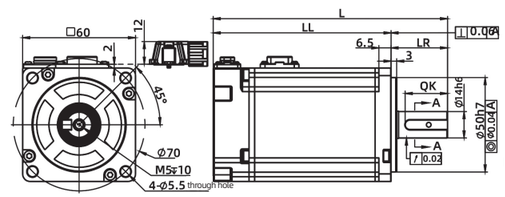
40mm flange



Unit: mm

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

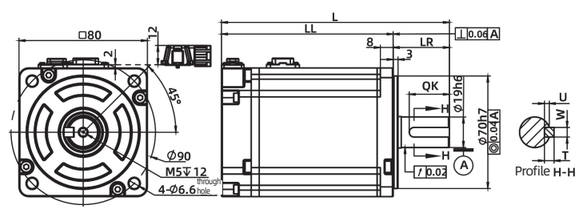
60mm flange



Unit: mm

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

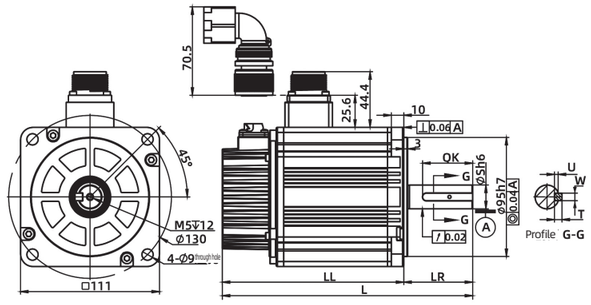
80mm flange



Unit: mm

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-M08A-R7530-□1L	152	117	35	19	25	3	6	6
V7E-M08A-R7530-□2L	184.5	149.5	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

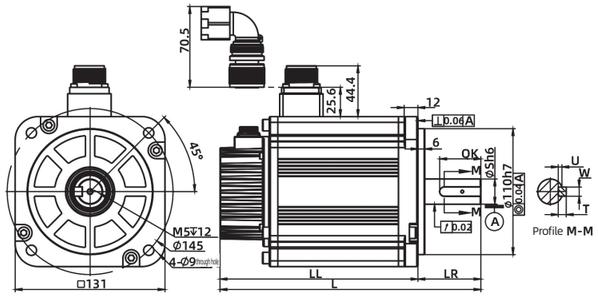
110mm flange



Unit: mm

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

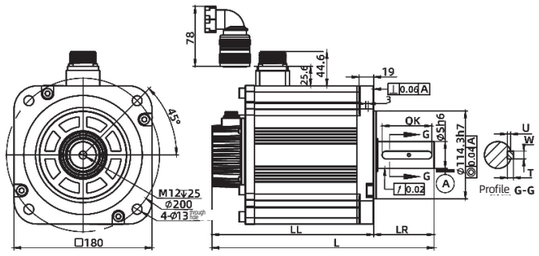
130mm flange



Unit: mm

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-1R815-□1	228	173	55	22	36	3.2	8	7
V7E-M13A-1R815-□2	256.2	201.2	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
V7E-M13A-2R315-□1L	258	203	55	22	36	3.2	8	7
V7E-M13A-2R315-□2L	286.2	231.2	55	22	36	3.2	8	7
V7E-M13A-3R020-□1	258	203	55	22	36	3.2	8	7
V7E-M13A-3R020-□2	286.2	231.2	55	22	36	3.2	8	7
V7E-M13D-R8515-□1	193	138	55	22	36	3.2	8	7
V7E-M13D-R8515-□2	221.2	166.2	55	22	36	3.2	8	7
V7E-M13D-1R020-□1	193	138	55	22	36	3.2	8	7
V7E-M13D-1R020-□2	221.2	166.2	55	22	36	3.2	8	7
V7E-M13D-1R315-□1	208	153	55	22	36	3.2	8	7
V7E-M13D-1R315-□2	236.2	181.2	55	22	36	3.2	8	7
V7E-M13D-1R520-□1	208	153	55	22	36	3.2	8	7
V7E-M13D-1R520-□2	236.2	181.2	55	22	36	3.2	8	7
V7E-M13D-1R815-□1	228	173	55	22	36	3.2	8	7
V7E-M13D-1R815-□2	256.2	201.2	55	22	36	3.2	8	7
V7E-M13D-2R020-□1	228	173	55	22	36	3.2	8	7
V7E-M13D-2R020-□2	256.2	201.2	55	22	36	3.2	8	7
V7E-M13D-2R315-□1L	258	203	55	22	36	3.2	8	7
V7E-M13D-2R315-□2L	286.2	231.2	55	22	36	3.2	8	7
V7E-M13D-3R020-□1	258	203	55	22	36	3.2	8	7
V7E-M13D-3R020-□2	286.2	231.2	55	22	36	3.2	8	7
V7E-M13A-R8515-□1B	193	138	55	19	40	3.1	6	6
V7E-M13A-R8515-□2B	221.2	166.2	55	19	40	3.1	6	6
V7E-M13A-1R815-□1B	228	173	55	24	36	3.3	8	7
V7E-M13A-1R815-□2B	256.2	201.2	55	24	36	3.3	8	7
V7E-M13D-R8515-□1B	193	138	55	19	40	3.1	6	6
V7E-M13D-R8515-□2B	221.2	166.2	55	19	40	3.1	6	6
V7E-M13D-1R815-□1B	228	173	55	24	36	3.3	8	7
V7E-M13D-1R815-□2B	256.2	201.2	55	24	36	3.3	8	7

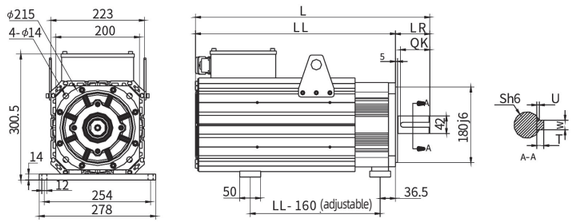
180mm flange



Unit: mm

Model	L	LL	LR	S	QK	U	W	T
V7E-M18A-2R915-□1	266	187	79	35	65	4.3	10	8
V7E-M18A-2R915-□2	307.5	228.5	79	35	65	4.3	10	8
V7E-M18A-4R415-□1	290	211	79	35	65	4.3	10	8
V7E-M18A-4R415-□2	331.5	252.5	79	35	65	4.3	10	8
V7E-M18D-2R915-□1	266	187	79	35	65	4.3	10	8
V7E-M18D-2R915-□2	307.5	228.5	79	35	65	4.3	10	8
V7E-M18D-2R915-□1H	266	187	79	35	65	4.3	10	8
V7E-M18D-2R915-□2H	307.5	228.5	79	35	65	4.3	10	8
V7E-M18D-4R415-□1	290	211	79	35	65	4.3	10	8
V7E-M18D-4R415-□2	331.5	252.5	79	35	65	4.3	10	8
V7E-M18D-4R415-□1H	290	211	79	35	65	4.3	10	8
V7E-M18D-4R415-□2H	331.5	252.5	79	35	65	4.3	10	8
V7E-M18D-5R515-□1	325.5	246.5	79	35	65	4.3	10	8
V7E-M18D-5R515-□2	367	288	79	35	65	4.3	10	8
V7E-M18D-5R515-□1H	325.5	246.5	79	35	65	4.3	10	8
V7E-M18D-5R515-□2H	367	288	79	35	65	4.3	10	8
V7E-M18D-7R515-□1	372.5	293.5	79	35	65	4.3	10	8
V7E-M18D-7R515-□2	414	335	79	35	65	4.3	10	8
V7E-M18D-7R515-□1H	372.5	293.5	79	35	65	4.3	10	8
V7E-M18D-7R515-□2H	414	335	79	35	65	4.3	10	8
V7E-M18D-5R515-□1BH	359.5	246.5	113	42	96	4.2	12	10
V7E-M18D-5R515-□2BH	401	288	113	42	96	4.2	12	10
V7E-M18D-7R515-□1BH	406.5	293.5	113	42	96	4.2	12	10
V7E-M18D-7R515-□2BH	448	335	113	42	96	4.2	12	10

200mm flange

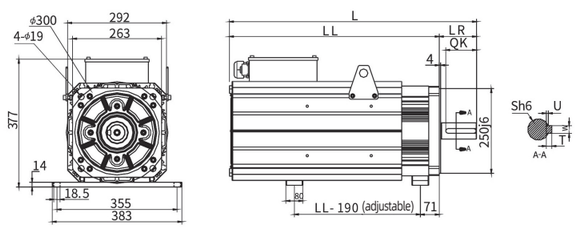


Unit: mm

Model	L	LL	LR	S	U	W	T	QK
VM7-M20D-01115-□1FNS	455	373	82	42	5	12	8	56
VM7-M20D-01515-□1FNS	528	446	82	42	5	12	8	56
VM7-M20D-02015-□1FN	560	478	82	42	4	12	8	70
VM7-M20D-02215-□1FN	607	525	82	42	4	12	8	70

Note 1: The foot plate of 200mm flange motor (optional).
Model code: S18 Material code: 6010000008

263mm flange



Unit: mm

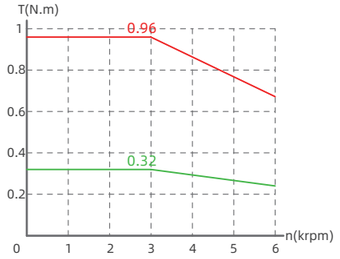
Model	L	LL	LR	S	U	W	T	QK
VM7-M26D-03015-□1FN	640	530	110	48	4.5	14	9	90
VM7-M26D-03715-□1FN	684	574	110	48	4.5	14	9	90
VM7-M26D-04515-□1FN	727	617	110	48	4.5	14	9	90
VM7-M26D-05515-□1FN	795	685	110	48	4.5	14	9	90

Note 2: The foot plate of 263mm flange motor (except VM7-M26D-05515 model is standard configured, other models are optional).
Model code: S25F Material code: 2800050433

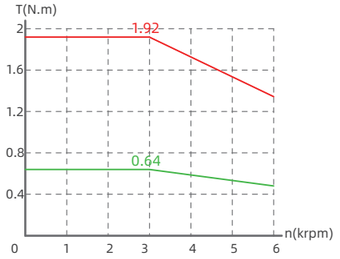
V7E Servo Motor Torque Characteristics

Note:"___" is the rated torque, "____" is the instantaneous maximum torque.

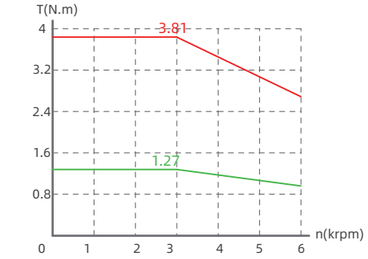
V7E-L04A-R1030- □□



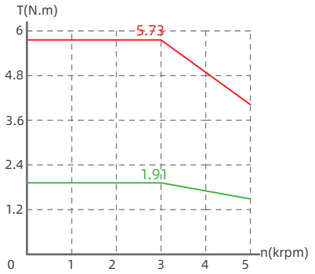
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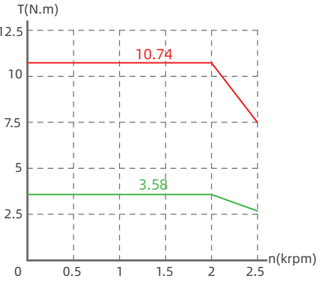
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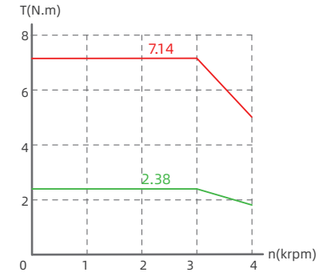
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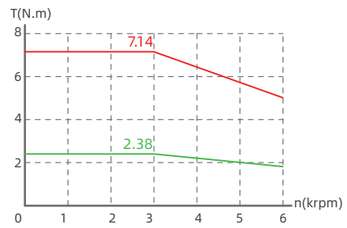
V7E-L08A-R7520- □□L



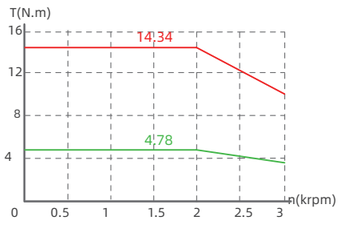
V7E-L08A-R7530- □□L



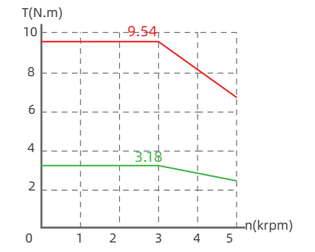
V7E-□08A-R7530- □□



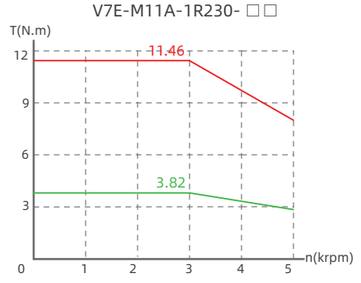
V7E-M13□-1R020-□□



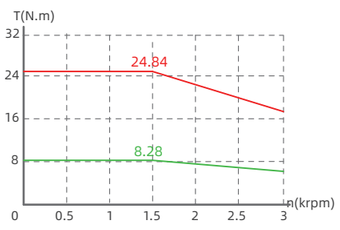
V7E-L08A-1R030- □□



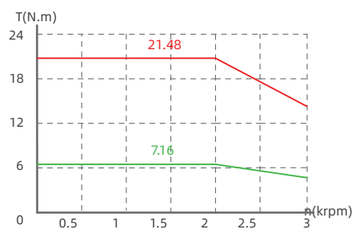
V7E-M11A-1R230- □□



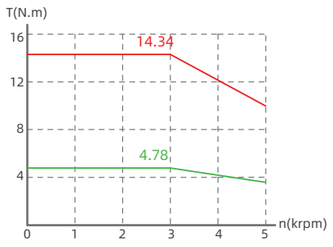
V7E-M13□-1R315-□□



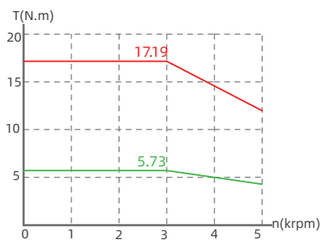
V7E-M13□-1R520-□□



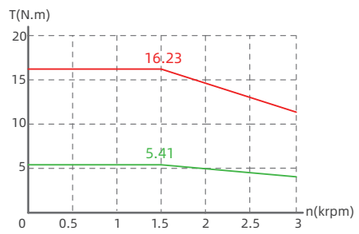
V7E-M11A-1R530- □□



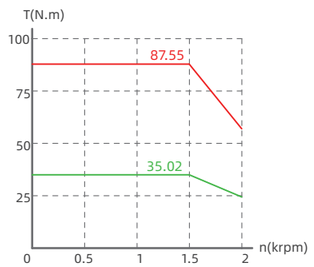
V7E-M11A-1R830- □□



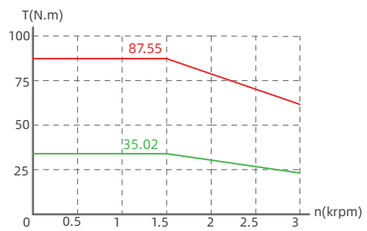
V7E-M13□-R8515-□□



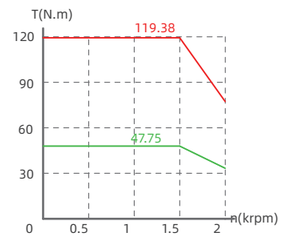
V7E-M18□-5R515-□□



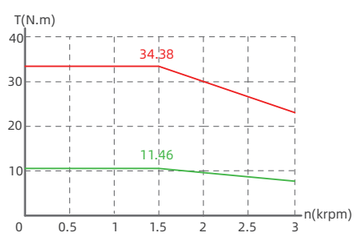
V7E-M18□-5R515-□□H



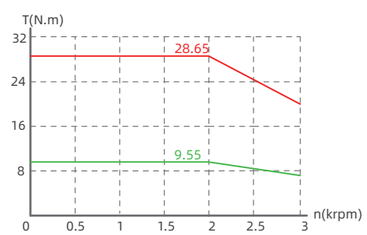
V7E-M18□-7R515-□□



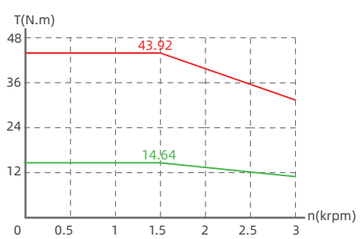
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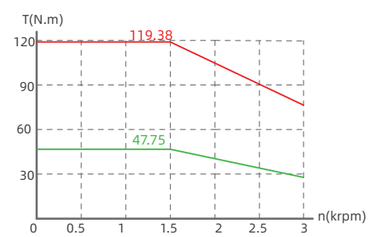
V7E-M13□-2R020-□□



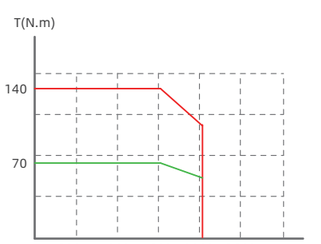
V7E-M13□-2R315-□□



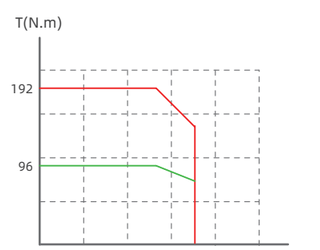
V7E-M18□-7R515-□□H



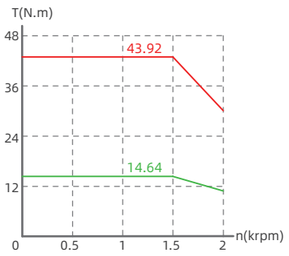
VM7-M20D-01115-□1FNS



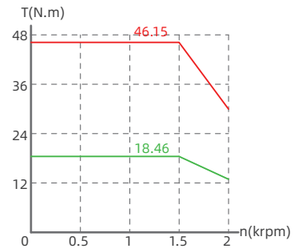
VM7-M20D-01515-□1FNS



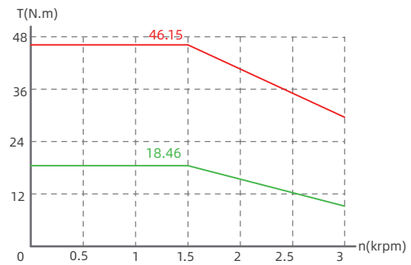
V7E-M13□-2R315-□□L



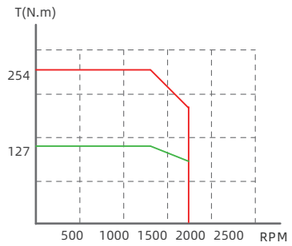
V7E-M18□-2R915-□□



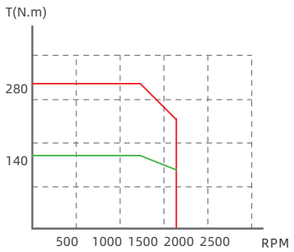
V7E-M18□-2R915-□□H



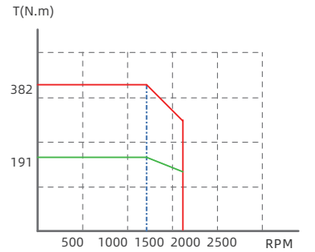
VM7-M20D-02015-□1FN



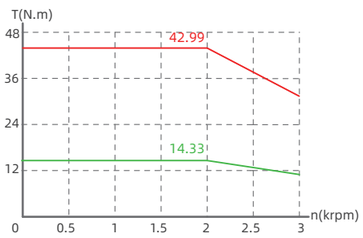
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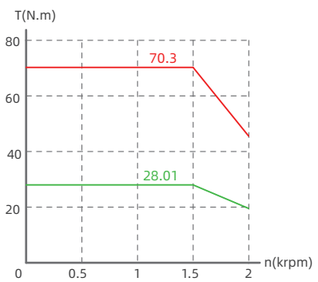
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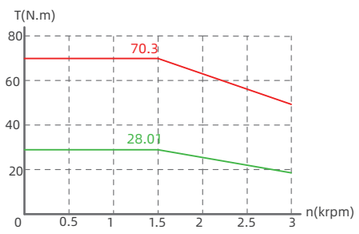
V7E-M13□-3R020-□□



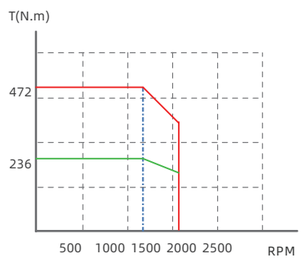
V7E-M18□-4R415-□□



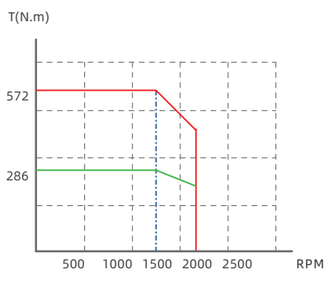
V7E-M18□-4R415-□□H



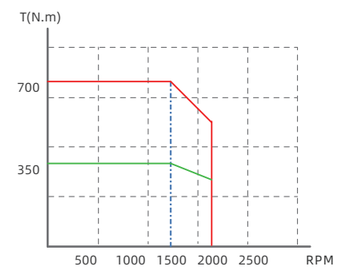
VM7-M26D-03715-□1FN



VM7-M26D-04515-□1FN



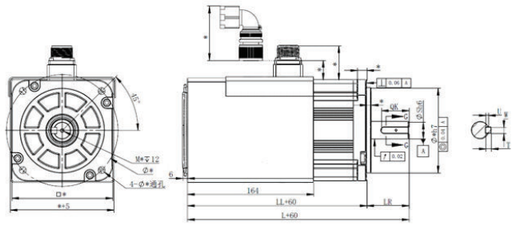
VM7-M26D-05515-□1FN



Fan Selection

Fans are optional for 110 / 130 / 180 flange motors. For motors with fans, add "F" after the original model.

Motor dimension with fans



Motor length +60mm with optional fan.
Other dimensions unchanged.

Fan specification

Item	F12038N27A230
Rated voltage (V)	230±15 AC
Rated current (A)	0.135
Rated air volume (CFM)	89
Rated speed (rpm)	2650

Brake Selection

Flange	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
180	Z176-S180(24V)50C38	50	24±10%	2

SD700 Servo Drive Cables

Power cable naming rules

V M 050 - L030 - O T L

Product Series

Power Cable

Cable Diameter

030: 0.3mm² (≤4.5A)
050: 0.5mm² ≤(≤6A)
075: 0.75mm² (≤7A)
150: 1.5mm² (≤11A)
250: 2.5mm² (≤18A)
400: 4mm² (≤30A)

Cable Length

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

Motor End Plug

A: 40/60/80 flange VM7 motor w/o brake
U: 40 flange V7E motor w/o brake
UB: 40 flange V7E motor with brake
O: 60/80 flange V7E motor w/o brake
OB: 60/80 flange V7E motor with brake
WP: 40/60/80 flange VM7 motor with waterproof connector, w/o brake
WB: 40/60/80 flange VM7 motor with waterproof connector and brake
K: 110/130 flange VM7/V7E motor w/o brake
H: 110/130 flange VM7/V7E motor with brake
M: 180 flange VM7/V7E motor w/o brake

Drive End Plug

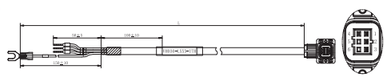
N: None (Bare wire / U terminal)
T: Fork type cold pressed or pre-insulated tube type terminal)

Cable Material

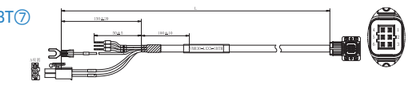
L: Standard cable (bending times over 2million)
H: Flexible cable (bending times over 10 million)

Power cable specifications

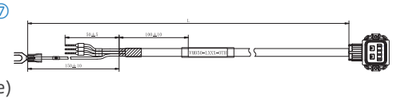
VM030-④-UT⑦
40 flange power cable (without brake)



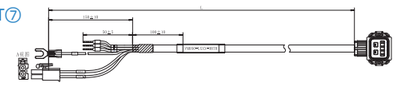
VM030-④-UBT⑦
40 flange power cable (with brake)



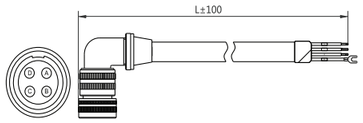
VM050-④-0T⑦
60/80 flange power cable (without brake)



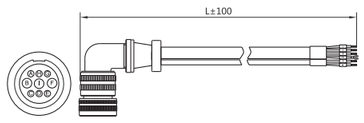
VM050-④-0BT⑦
60/80 flange power cable (with brake)



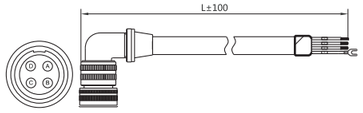
VM150-④-KN⑦
VM250-④-KN⑦
110/130 flange power cable (without brake)



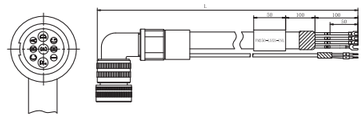
VM150-④-HN⑦
VM250-④-HN⑦
110/130 flange power cable (with brake)



VM250-④-MN⑦
VM400-④-MN⑦
180 flange power cable (without brake)



VM250-④-IN⑦
VM400-④-IN⑦
180 flange power cable (with brake)



Encoder cable naming rules

V E 04 - L030 - 2 S N L

Product Series

Encoder Cable

Number of Lines

04: 4-pin twisted shielded cable (no external battery power cable)
06: 6-pin twisted shielded cable (with external battery power cable)

Cable Length

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

Cable Material

L: Standard cable (bending times over 2 million)
H: Flexible cable (bending times over 10 million)
C: Hardy flexible towline cable (meet the ambient temperature of -25℃)

Battery

N: No battery
D: With battery
F: With battery box, but no battery (Battery free)

Motor-end Connector

A: 16M-9A(9-pin integrated injection molding aviation plug)
S: SC-MC7S-A6 (7-pin motor connector)

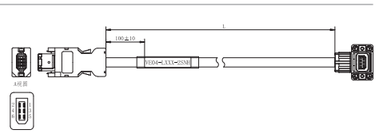
Drive-end Connector

2: 6 pin 1394 plug

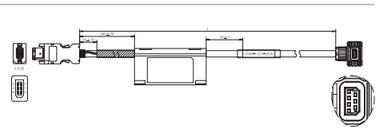
Note: The wire length of the encoder wire defined as " 2S" is more than 15 meters, you need to use the solution of the encoder wire defined as " 2A" plus the adapter wire.

Encoder cable

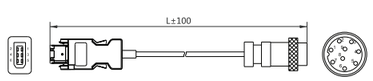
VE04-④-2SN⑧
40/60/80 flange motor encoder cable (no battery)



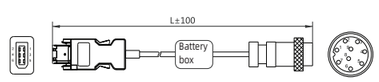
VE06-④-2SD⑧
40/60/80 flange motor encoder cable (with battery)



VE04-④-2AN⑧
110 flange and above motor encoder cable (no battery box)

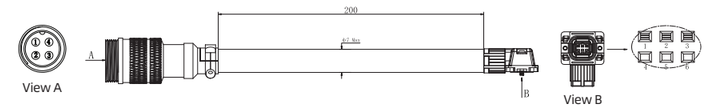


VE06-④-2AD⑧
110 flange and above motor encoder cable (with battery box)

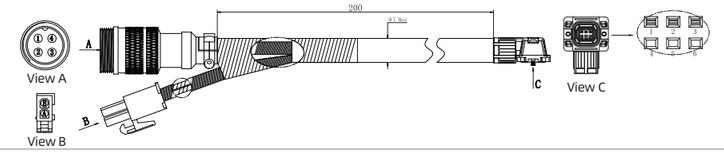


Transfer cable

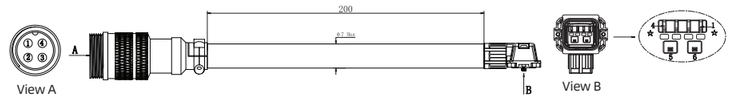
D-VM050-L020-A1-L
VM7 to V7E, 40 flange power transfer cable (0.2m)



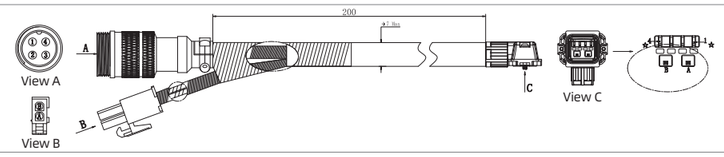
D-VM050-L020-AB2-L
VM7 to V7E, 40 flange power transfer cable (with brake, 0.2m)



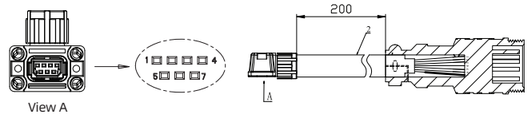
D-VM050-L020-AC1-L
VM7 to V7E, 60/80 flange power transfer cable (0.2m)



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



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



Braking Resistor

Model	Braking Voltage (V)	Internal Resistor (W)	Min External Resistance (Ω)	Max External Resistance (Ω)
SD700-1R8A	380	-	40	200
SD700-3R3A	380	-	40	100
SD700-5R5A	380	40Ω 60	25	70
SD700-7R6A	380	40Ω 60	15	50
SD700-9R5A	380	40Ω 60	15	40
SD700-120A	380	30Ω 200	10	30
SD700-160A	380	30Ω 200	10	30
SD700-2R5D	700	80Ω 60	80	220
SD700-3R8D	700	80Ω 60	55	180
SD700-6R0D	700	40Ω 60	35	110
SD700-8R4D	700	40Ω 60	25	85
SD700-110D	700	40Ω 60	25	70
SD700-170D	700	30Ω 200	30	50
SD700-240D	700	30Ω 200	15	40
SD700-300D	700	30Ω 200	15	30
SD700-400D	700	-	8	20
SD700-500D	700	-	10	20
SD700-600D	700	-	10	20
SD700-700D	700	-	10	15
SD700-800D	700	-	10	15
SD700-121D	700	-	8	10
SD700-171D	700	-	6	8

Research and Production

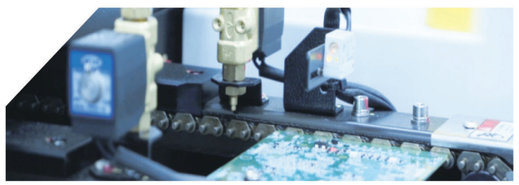
R&D and Technology Platform

- 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.









Service and Support



A growing network of 334 distributors now represents our expanded global reach. Domestically, our operations are anchored by resident teams in 22 major cities, while our overseas expansion is bolstered by a series of subsidiaries and offices, marking a significant step in our journey to becoming a truly global service provider

01 Pre-sales
Technology promotion, site survey and energy efficiency assessment

02 In-sales
Customization, design consultation, installation and commissioning, and site training

03 Post-sales
Regular return visits, timely maintenance and repair and user training

