



MSD700 Series

High-performance Servo System



About us

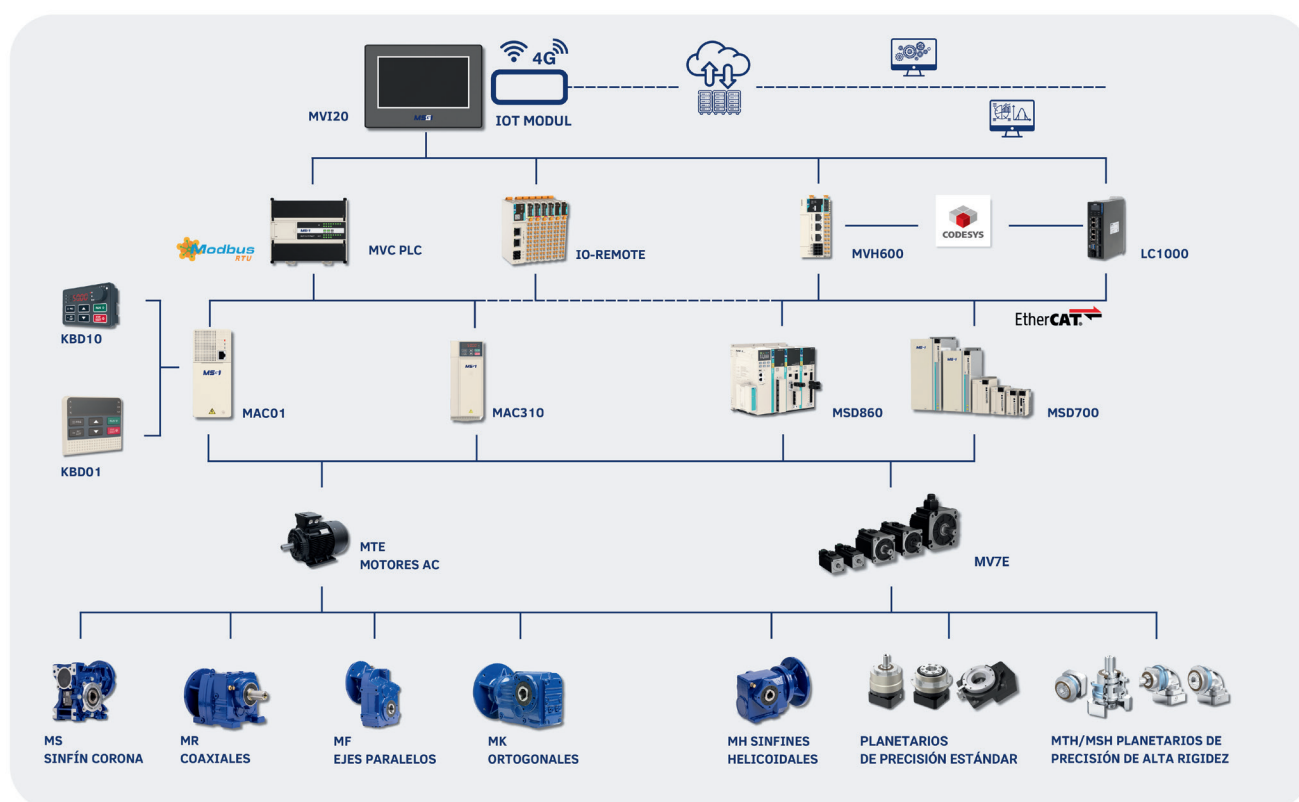
Welcome to Mechatronic System Group (MSG), a young team with solid experience in the industrial mechatronics sector.

We stand out by offering innovative products and a complete portfolio that covers the needs of machine manufacturers and engineering companies. At MSG, we not only provide advanced technical solutions, but we also accompany our customers throughout the machine definition process. With a national and international presence, we are committed to driving the cutting edge of mechatronics in industry.

At MSG, we pride ourselves on being at the forefront of technology by constantly innovating our products. In our electronics division, we excel with precision planetary gearboxes and helical gearboxes. Designed to be interchangeable with the vast majority of manufacturers, this gives us a unique competitive advantage over other brands. MSG are committed to offering advanced and flexible mechanical solutions to meet the demands of our customers.

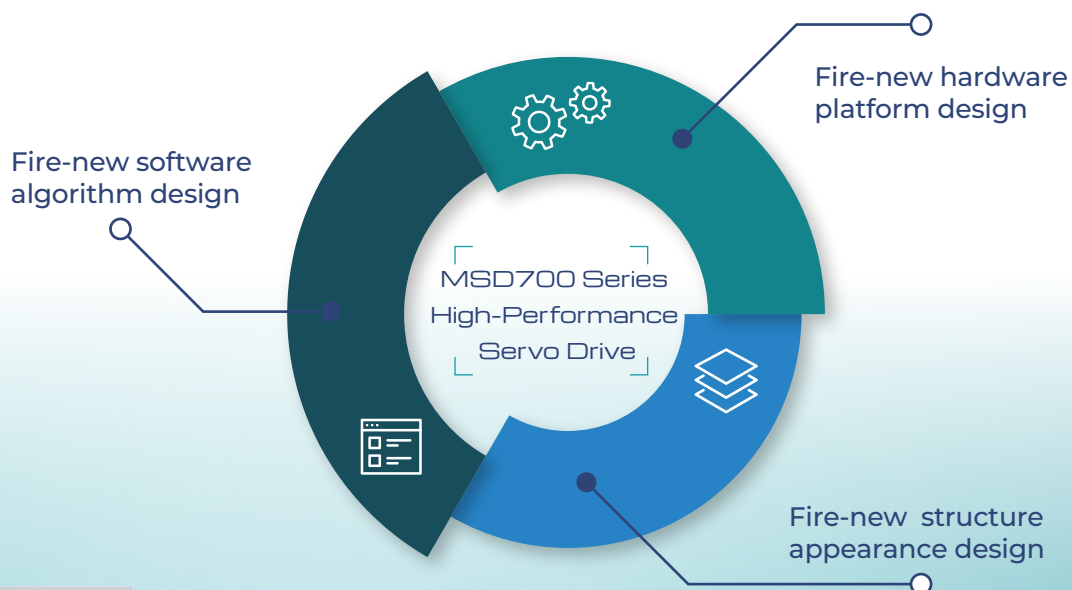
MSG provides various products including inverters from 0.4kW to 1.200kW, servo systems from 50W to 90kW, motion controllers, PLC and HMI, which are applied in all sorts of fields occasions like lifting, mining, rail traffic, machine tools, compressors, plastic equipment, photo-voltaic pumping, construction, robots/mechanical arms, printing and packaging, chemical fibers for textile use, metallurgy, municipal works, petrol work and chemical engineering.

MSG has committed to electric drive and industrial control since it's foundation. As an all-round company engaged in R & D, manufacturing and sales on high-tech industrial automation products.



MSD700 SERIES

High-performance Servo System

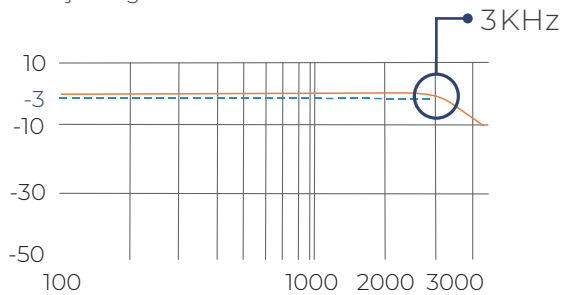


Faster & more efficient

Product features

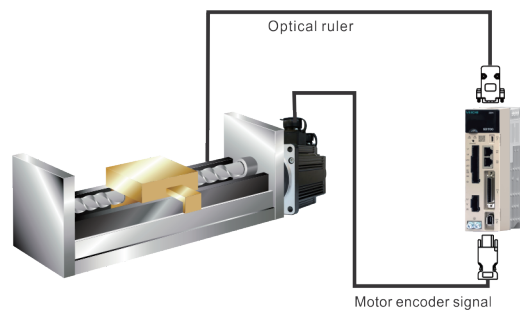
3KHz speed loop response bandwidth

The unique current algorithm can effectively improve the speed loop bandwidth which can greatly reduce the adjusting time and improve production efficiency. The fastest adjusting time can reach 1ms.



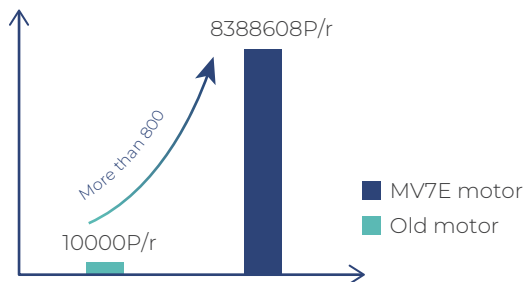
Support full closed-loop mode

The full closed loop mode supports external second encoder or grating ruler to reduce mechanical transmission gaps and increase actual positioning accuracy. (Supported by all models).



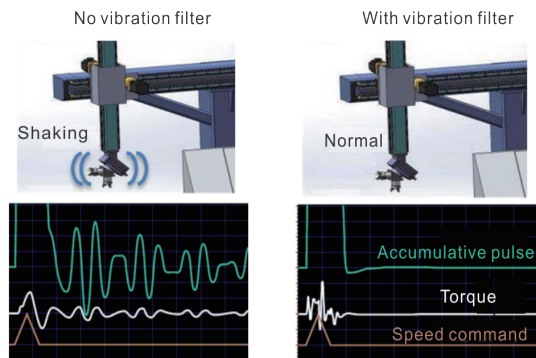
23-Bit absolute encoder

Pulses per turn reach up to 8388608 on a standard 23-bit multi-turn absolute encoder, communication speed up to 2.5Mbps and thus positioning is more accurate, low speed running is smoother, and loss of position caused by power failure will not be lost.



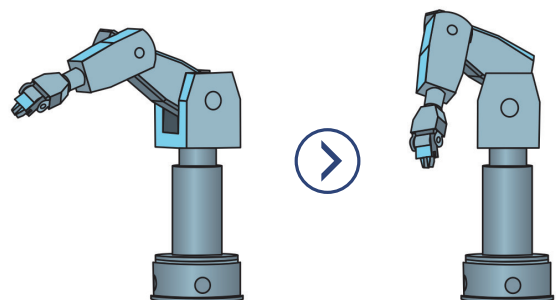
Low frequency vibration suppression function

The vibration filter can be set via PC software to effectively eliminate inherent vibration frequency, greatly reducing axis jitter (sloshing) when it's stopped and effectively suppressing vibration within 0~100Hz. This function is often used to eliminate the end shaking when the injection molding manipulators and stacker are turned off.



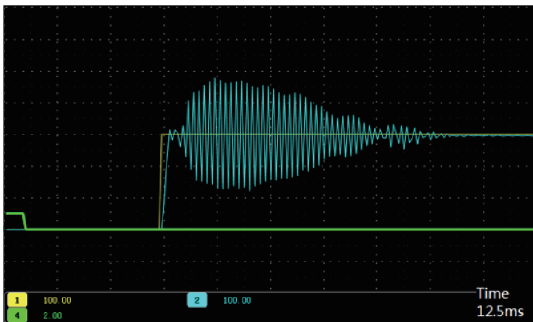
Robust control

The latest method enables smooth operation without parameter adjustment even if the load rotational inertia changes within 30 times during motion. It's ready for use on installation and widely used on mechanical arms.



Auto notch filter setting

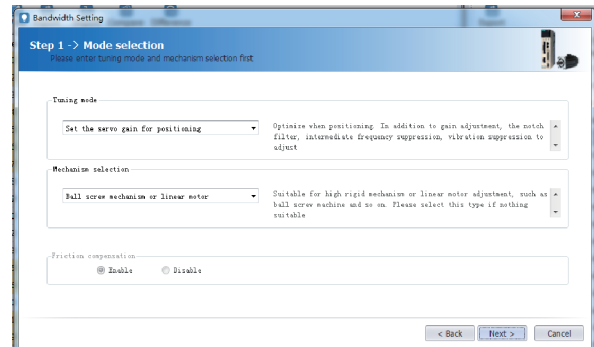
It features easiness of use and the whole process is no longer than 70ms. Noise and vibration caused by mechanical resonance can be greatly reduced for faster response. It is widely used on machine tools.



Intelligent setting

Automatic gain adjustment, boot setting mode and sequential setting are all for using servo gain and it won't cost too much time and energy.

More modes are available according to mechanical structures and processing properties to deliver best performance.



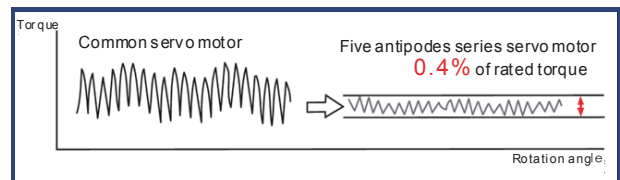
Powerful bus communication function

Support RS-485, EtherCAT, CANopen, MECHATROLINK II, MECHATROLINK III and other mainstream bus protocols.



Significant reduction of motor pulsating torque, for more stable running at low speed

10-stage rotor and 12-slot stator, together with the special magnetic circuit, can effectively suppress the cogging and, greatly reduce torque pulsation, thus ensuring smoother motor operation at fixed speed and low speed.



Down-sized motor and uplifted dynamic performance

The latest manufacturing techniques are adopted here to optimize magnetic circuit and reduce magnetic loss, achieving motor high dynamic response;

The motor length is shortened by about 2cm, and the temperature rise is reduced by 5 ~ 10°C to deliver higher shaft jump accuracy and easier wiring. All products in this series are designed with IP67 protection.



MV7E motor

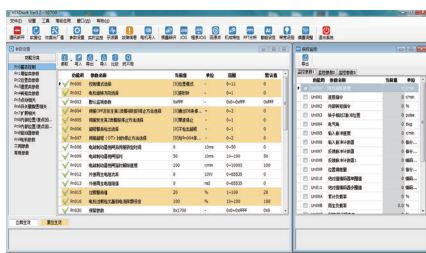


MVM7 motor

If taking 400W as an example, the length is shortened by 20 mm.

Powerful PC software

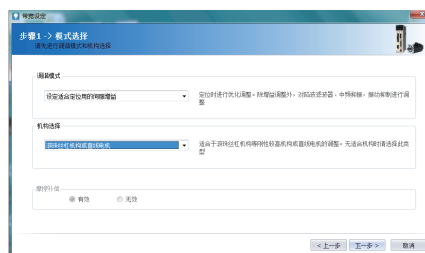
No need to install any debugging software since connection between the drive and computer works via USB cord.



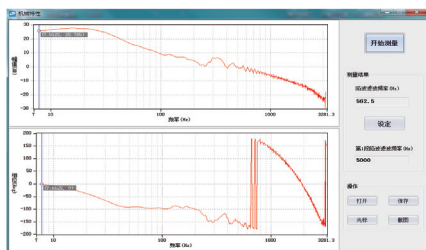
Batch parameter reading and writing



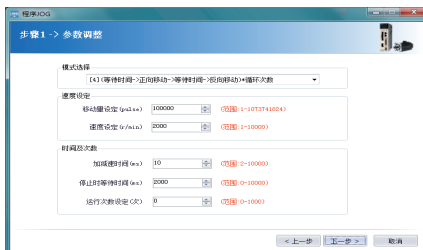
Inertia identification



PID parameters for different mechanical structures



Mechanical characteristics analysis, automatic resonance suppression



Internal position loop program JOG, easy to debug



The online oscilloscope monitoring real-time (125us) via multi-channels

Model description

MSD 700 - 3R3 A - P A □

MSD: ○
Servo product code

700: ○
High-performance servo drive series

Rated current ○

Product management code
Standard product default

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

(A) 220VAC				(D) 400VAC							
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		

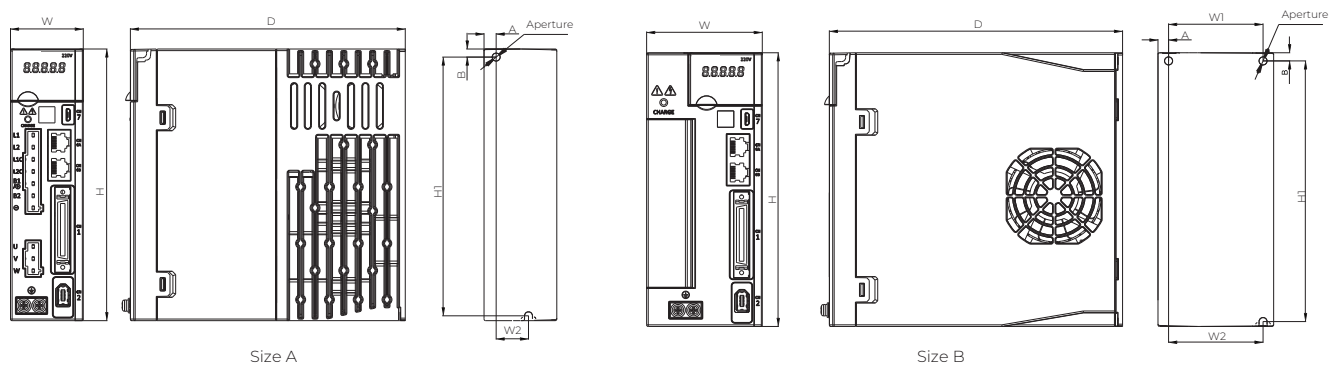
Code	Model	Pulse input	16 bit analog	Full closed loop	RS485	CANopen	EtherCAT	Mechatro Link II	Mechatro Link III	PROFINET
P	Pulse type	√	○	√	√	×	×	×	×	×
S	Standard type	√	√	√	√	√	×	×	×	×
C	CANopen type	√	○	×	√	√	×	×	×	×
E	EtherCAT type	×	×	×	√	×	√	×	×	×
M	Mechatro Link II type	×	×	×	√	×	×	√	×	×
L	Mechatro Link III type	×	×	×	√	×	×	×	√	×
N	PROFINET type	×	×	×	√	×	×	×	×	√

○ support 12 bit analog √ standard configured △ optional × not configured

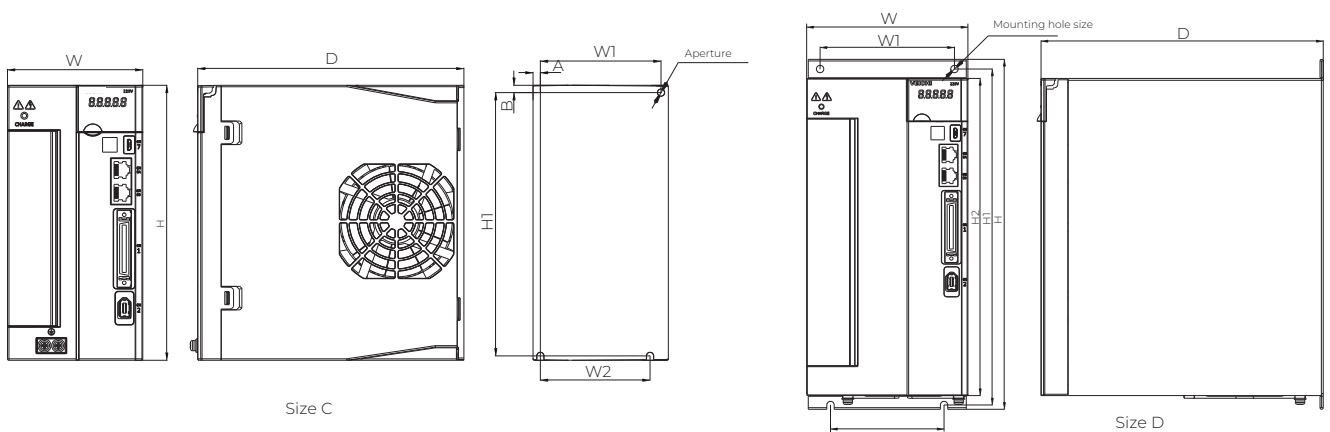
Drive power & Case volume

Model	Input	Output		Case volume
	Rated voltage (V)	Rated current (A)	Instantaneous current (A)	
MSD700-1R8A	Single / three phase 220	1.8	6.3	A
MSD700-3R3A	Single / three phase 220	3.3	11.6	
MSD700-5R5A	Single / three phase 220	5.5	16.5	B
MSD700-7R6A	Single / three phase 220	7.6	22.8	
MSD700-9R5A	Three phase 220	9.5	23.8	C
MSD700-120A	Three phase 220	12.0	36.0	
MSD700-160A	Three phase 220	16.0	40.0	B
MSD700-3R8D	Three phase 400	3.8	11.4	
MSD700-6R0D	Three phase 400	6.0	18.0	C
MSD700-8R4D	Three phase 400	8.4	25.2	
MSD700-110D	Three phase 400	11.0	27.5	D
MSD700-170D	Three phase 400	17.0	42.5	
MSD700-240D	Three phase 400	24.0	60.0	E
MSD700-300D	Three phase 400	30.0	70.0	
MSD700-400D	Three phase 400	40.0	80.0	F
MSD700-500D	Three phase 400	50.0	115.0	
MSD700-600D	Three phase 400	60.0	120.0	G
MSD700-700D	Three phase 400	70.0	140.0	
MSD700-800D	Three phase 400	80.0	160.0	H
MSD700-121D	Three phase 400	120.0	240.0	
MSD700-171D	Three phase 400	170.0	340.0	I
MSD700-221D	Three phase 400	220.0	440.0	
MSD700-321D	Three phase 400	320.0	640.0	J
MSD700-421D	Three phase 400	420.0	840.0	
MSD700-521D	Three phase 400	520.0	1040.0	K
				L

Drive appearance & Installation dimension

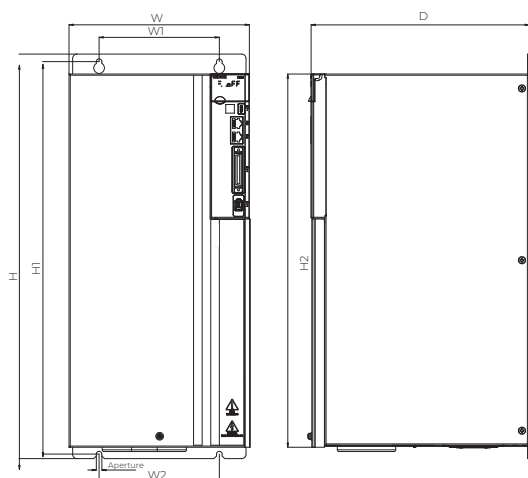


Chassis size	Model	Overall dimension(mm)			Installation dimension (mm)						Mounting hole size
		W	H	D	W1	W2	H1	H2	A	B	
A	MSD700-1R8A-**-	45	168	170	\	20	160	\	7.5	5	2-M4
	MSD700-3R3A-**-										
B	MSD700-5R5A-**-	71	168	180	58	58	160	\	6.5	5	3-M4
	MSD700-7R6A-**-										
	MSD700-9R5A-**-										
	MSD700-2R5D-**-										
	MSD700-3R8D-**-										



Chassis size	Model	Overall dimension(mm)			Installation dimension (mm)						Mounting hole size
		W	H	D	W1	W2	H1	H2	A	B	
C	MSD700-120A-**-	92.5	188	182	82.5	75	180	\	5	5	3-M4
	MSD700-160A-**-										
	MSD700-6R0D-**-										
	MSD700-8R4D-**-										
	MSD700-110D-**-										
D	MSD700-170D-**-	120	260	210	100	84.5	250	236	\	\	4-M5
	MSD700-240D-**-										
	MSD700-300D-**-										

■ MSD700 SERIES High-performance Servo System



Chassis size	Model	Overall dimension(mm)			Installation dimension (mm)						Aperture
		W	H	D	W1	W2	H1	H2	A	B	
E	MSD700-400D-**	180	413	240	125	125	404.5	413	\	\	4-M6
F	MSD700-500D-**	210	471	254	140	140	457	434.5	\	\	4-M6
	MSD700-600D-**										
G	MSD700-700D-**	240	558	310	176	176	544	520	\	\	4-M6
	MSD700-800D-**										
	MSD700-121D-**										
H	MSD700-171D-**	270	638	350	195	195	615	580	\	\	4-M10
I	MSD700-221D-**	350	738	405	220	220	715	680	\	\	4-M10
J	MSD700-321D-**	360	940	495	200	200	911	880	\	\	4-M18
K	MSD700-421D-**	370	1140	565	200	200	1111	1080	\	\	4-M18
L	MSD700-521D-**	420	1250	590	240	240	1213	1180	\	\	4-M20

Drive specifications

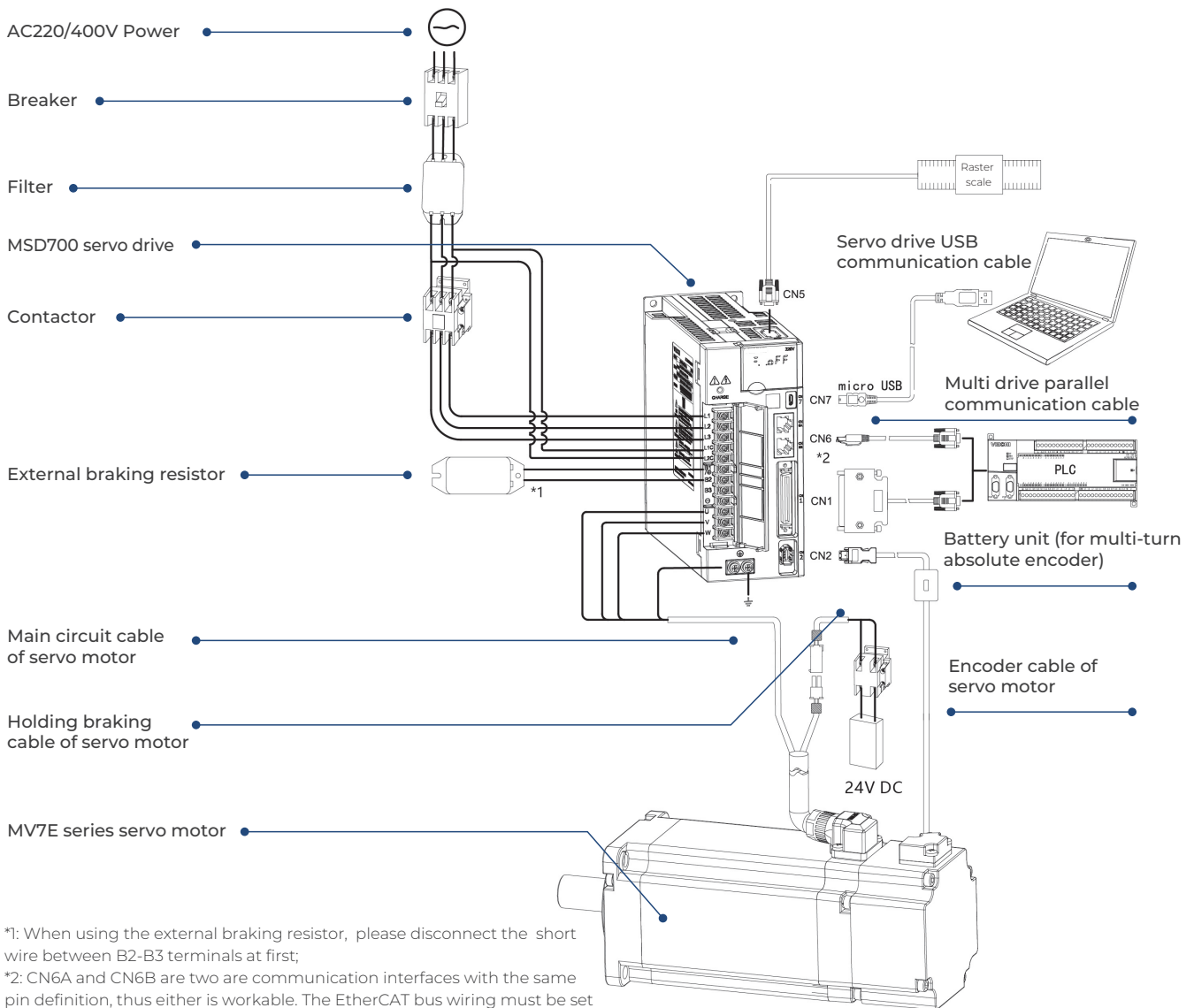
Items			Specifications	
Control mode			IGBT PWM control; sine wave current drive mode	
Feedback	Rotating motor combination		Serial Communication Type Encoder: 17-bit, 23-bit absolute encoder	
Environmental condition	Ambient temperature		-5℃～55℃(derating use at 55℃～60℃)	
	Storage temperature		-20℃～85℃	
	Ambient humidity		Below 95%RH (no freezing, no condensation)	
	Storage humidity		Below 95%RH (no freezing, no condensation)	
	Vibration resistance		4,9m/s ²	
	Impact resistance		19,6m/s ²	
	Protection class		IP20	
	Cleanliness		No corrosive gases or flammable gases	
			No water, oil or chemicals	
			Environment with less dust, ash, salt, and metal powders	
	Altitude		Below 1000m (derating use at 1000m to 2000m)	
Others		No static interference, strong electric field, strong magnetic sound, radiation and so on		
Applicable standard			EN 61800-3:2004/A1:2012	EN 61800-5-1:2007
Installation type			Base mounting type: all models	
Performance	Speed control range		1: 6000 (the lower limit of speed control range is the value under the condition of not stop with rated torque load)	
	Speed fluctuation rate	Load fluctuation	The lower limit of speed control also means the requirement not to stop when operation at rated torque with loads	
		Voltage fluctuation	Rated speed 0% (rated voltage±10%)	
		Temperature fluctuation	Below rated speed ±0.1% (temperature fluctuation:25±25℃)	
	Torque control accuracy		±1%	
Soft start time setting			0~30s (acceleration and deceleration can be set separately)	
Communication function	Host communication	Communication mode	RS485,CANOpen,EtherCAT,MECHATROLINK-II,MECHATROLINK-III,PROFINET	
		Axis address setting	Parameters setting	
	USB communication	Equipment connection	Computer	
			According to USB1.1 specifications(12M)	
Display function			CHARGE indicator light	
Keypad operator function			Button switch ×4	

Items					Specifications		
Input/ output signal	Encoder pulse output of frequency division				A phase, B phase, C phase: number of pulse frequency-division output for linear drive can be arbitrarily set		
	Sequential control input signal	Assignable input signal	Working voltage range: DC24V±20%				
			Input points:9				
			Input mode: common collector input, common emitter input				
			Input signal				
			Servo ON (/S-ON)				
			P action/P-CON				
			Origin reset deceleration switch signal (/DEC)				
			Forward drive banned (P-OT), reverse drive banned (N-OT)				
			Alarm reset (/ALM-RST)				
			Torque limit selection (/TLC)				
			Speed rotation direction selection signal (/SPD-D)				
			Internal speed setting selection (/SPD-A,/SPD-B)				
			Control mode switch (/C-SEL)				
			Zero position fixed (/ZCLAMP)				
			Command pulse inhibited (/INHIBIT)				
			Magnetic poles detection input (/P-DET) signal				
			Gain switch (/G-SEL)				
			Command pulse input rate switch (/PSEL)				
			Assignable output signals and positive / negative logic switch				
			Sequential control output signal	Fixed output	Working voltage range: DC5V~DC30V		
	Output points:1						
	Assignable output signals	Output signal:servo alarm: (ALM)					
		Working voltage range: DC5V~DC30V					
		Output points:3					
		Input method: optocoupler output (isolated)					
		Output signal					
		Position finished(/COIN)					
		Rotational detection (/TGON)					
		Servo ready(S-RDY)					
		Torque limited detection (/CLT)					
		Speed limit detection (/VLT)					
		Brake (/BK)					
		Warning (/WARN)					
		Location nearby (/NEAR)					
		Assignable output signals and change positive / negative logic					
Dynamic brake					Operate when the main power OFF, servo alarm, servo OFF, Over travel(OT) (only for AC220V A,B model)		
Regeneration treatment					Built-in function, see “Brake resistance selection”		
Over travel (OT) prevention					Dynamic brake (DB) stop, DEC stop, or free stop when P-OT, N-OT inputs operate		
Protection function					Over current, over voltage, under voltage, overload, regeneration fault, etc		
Auxiliary function					Gain adjustment, alarm record, JOG operation, origin search, etc		
Control	Position control	Feedforward compensation			0%~100%		
		Position arrived range			0~1073741824 Command unit		
		Input signal	Command pulse	command pulse pattern	Choose one of the following		
				Symbol + pulse sequence, CW+CCW pulse sequence,two-phase pulse of 90°difference			
				Input pattern	Linear drive, open collector		
				Maximum input frequency	Linear	Symbol + pulse sequence, CW+CCW pulse sequence: 4Mpps	
						Two-phase pulse of 90°difference: 1Mpps	
					Open collector	Symbol + pulse sequence, CW+CCW pulse sequence: 200Kpps	
						Two-phase pulse of 90°difference: 200Kpps	
				Input rate switching	1~100 times		
				Signal clearance			Clearance of position deviation

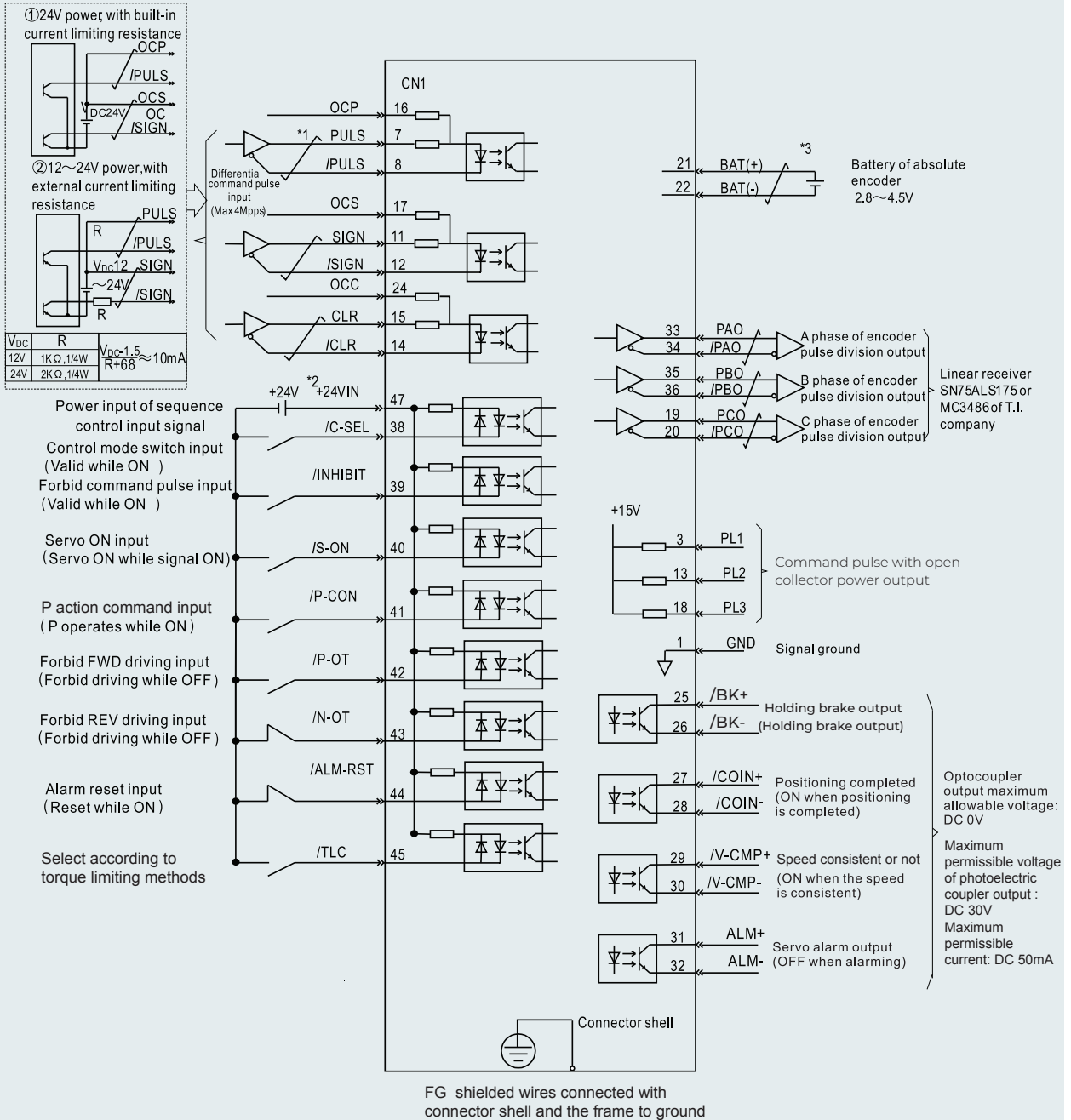
Items			Specifications
Control	Speed control	Soft start time setting	0~30s(set acceleration and deceleration respectively)
		Input signal	Command voltage
			Maximum input voltage: $\pm 10V$ (motor runs forwardly under positive voltage command)
			Rated speed at DC6V [factory setting]
			Variable input gain setting
		Input impedance	About 14K Ω
	Internal set speed control	Loop time parameter	30 μs
		Rotation direction selection	Inner speed set selection (/SPD-A/SDP-B)
		Rotary direction selection (/SPD-D)	
		Speed selection	Stop or change to other control modes when both sides are OFF
Torque control	Input signal	Command voltage	Maximum input voltage: $\pm 10V$ (motor runs forwardly under positive voltage command)
			Rated torque at DC3V [factory setting]
			Variable input gain setting
		Input impedance	About 14K Ω
		Loop time setting	16 μs

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System configuration drawing



Standard wiring diagram - position mode



*1. ∇ is the twisted shields.

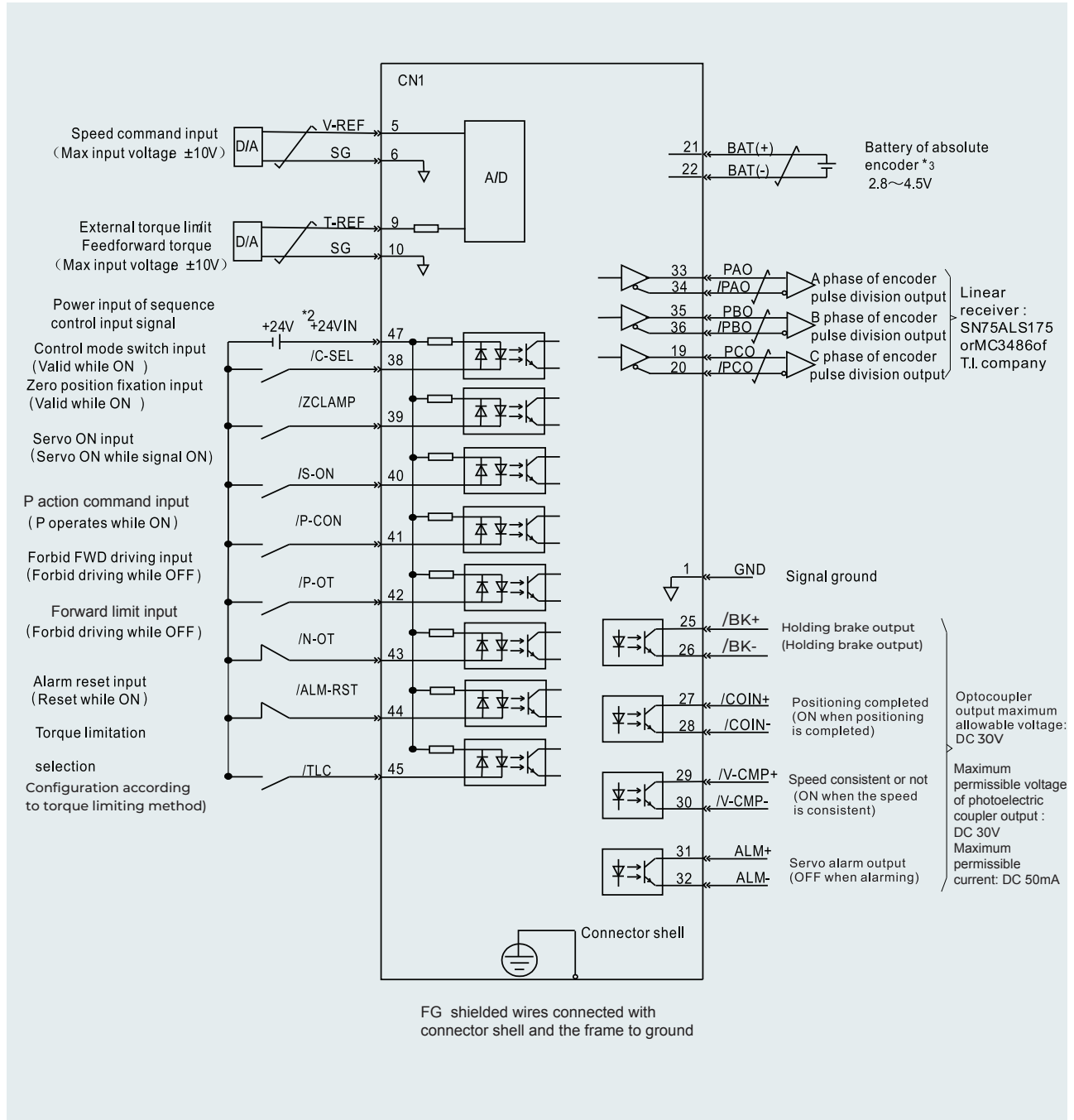
*2. DC24V power should be prepared by user. Double insulation or reinforced insulation equipments should be used for DC24V power.

*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 diagram - 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 breaker, 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 specifications (General model)

MV7E model	Voltage(V)	Power(W)	Rated torque (N·m)	Rated speed (RPM)	Max speed (RPM)	Rated current (A)	Max current (A)	Moment of inertia
	220	100	0.32	3000	6000	1	3	0.051kg·cm ²
MV7E-L04A-R1030-□2	220	100	0.32	3000	6000	1	3	0.052kg·cm ²
MV7E-L06A-R2030-□1	220	200	0.64	3000	6000	1.7	5.1	0.18kg·cm ²
MV7E-L06A-R2030-□2	220	200	0.64	3000	6000	1.7	5.1	0.2kg·cm ²
MV7E-L06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.34kg·cm ²
MV7E-L06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.36kg·cm ²
MV7E-M06A-R4030-□1	220	400	1.27	3000	6000	2.6	7.8	0.67kg·cm ²
MV7E-M06A-R4030-□2	220	400	1.27	3000	6000	2.6	7.8	0.69kg·cm ²
MV7E-L06A-R6030-□1	220	600	1.91	3000	5000	3.3	9.9	0.51kg·cm ²
MV7E-L06A-R6030-□2	220	600	1.91	3000	5000	3.3	9.9	0.53kg·cm ²
MV7E-L08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	1.02kg·cm ²
MV7E-L08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	1.13kg·cm ²
MV7E-M08A-R7530-□1	220	750	2.38	3000	6000	4.6	13.8	2.3kg·cm ²
MV7E-M08A-R7530-□2	220	750	2.38	3000	6000	4.6	13.8	2.41kg·cm ²
MV7E-L08A-1R030-□1	220	1000	3.18	3000	5000	5	16.5	1.34kg·cm ²
MV7E-L08A-1R030-□2	220	1000	3.18	3000	5000	5	16.5	1.45kg·cm ²
MV7E-M11A-1R230-□1	220	1200	3.82	3000	5000	6.3	18.9	4.91kg·cm ²
MV7E-M11A-1R230-□2	220	1200	3.82	3000	5000	6.3	18.9	5.52kg·cm ²
MV7E-M11A-1R530-□1	220	1500	4.78	3000	5000	7.6	22.8	6.1kg·cm ²
MV7E-M11A-1R530-□2	220	1500	4.78	3000	5000	7.6	22.8	6.71kg·cm ²
MV7E-M11A-1R830-□1	220	1800	5.73	3000	5000	9.3	27.9	7.28kg·cm ²
MV7E-M11A-1R830-□2	220	1800	5.73	3000	5000	9.3	27.9	7.89kg·cm ²
MV7E-M13A-1R020-□1	220	1000	4.78	2000	3000	4.9	14.7	12.98kg·cm ²
MV7E-M13A-1R020-□2	220	1000	4.78	2000	3000	4.9	14.7	15.12kg·cm ²
MV7E-M13A-1R520-□1	220	1500	7.16	2000	3000	7.1	21.3	18.38kg·cm ²
MV7E-M13A-1R520-□2	220	1500	7.16	2000	3000	7.1	21.3	20.52kg·cm ²
MV7E-M13A-2R020-□1	220	2000	9.55	2000	3000	9.4	28.2	25.58kg·cm ²
MV7E-M13A-2R020-□2	220	2000	9.55	2000	3000	9.4	28.2	27.72kg·cm ²
MV7E-M13A-3R020-□1	220	3000	14.33	2000	3000	14	42	36.38kg·cm ²
MV7E-M13A-3R020-□2	220	3000	14.33	2000	3000	14	42	38.52kg·cm ²
MV7E-M18A-2R915-□1	220	2900	18.46	1500	2000	12	30	49.56kg·cm ²
MV7E-M18A-2R915-□2	220	2900	18.46	1500	2000	12	30	56.05kg·cm ²
MV7E-M18A-4R415-□1	220	4400	28.01	1500	1800	16	40	68.9kg·cm ²
MV7E-M18A-4R415-□2	220	4400	28.01	1500	1800	16	40	75.39kg·cm ²
MV7E-M13D-1R020-□1	380	1000	4.78	2000	3000	3.2	9.6	12.98kg·cm ²
MV7E-M13D-1R020-□2	380	1000	4.78	2000	3000	3.2	9.6	15.12kg·cm ²
MV7E-M13D-1R520-□1	380	1500	7.16	2000	3000	4.4	13.2	18.38kg·cm ²
MV7E-M13D-1R520-□2	380	1500	7.16	2000	3000	4.4	13.2	20.52kg·cm ²
MV7E-M13D-2R020-□1	380	2000	9.55	2000	3000	5.5	16.5	25.58kg·cm ²
MV7E-M13D-2R020-□2	380	2000	9.55	2000	3000	5.5	16.5	27.72kg·cm ²
MV7E-M13D-3R020-□1	380	3000	14.33	2000	3000	8.3	24.9	36.38kg·cm ²
MV7E-M13D-3R020-□2	380	3000	14.33	2000	3000	8.3	24.9	38.52kg·cm ²
MV7E-M18D-2R915-□1	380	2900	18.46	1500	2000	7.1	17.8	49.56kg·cm ²
MV7E-M18D-2R915-□2	380	2900	18.46	1500	2000	7.1	17.8	56.05kg·cm ²

Servo motor specifications (General model)

MV7E model	Voltage(V)	Power(W)	Rated torque (N·m)	Rated speed (RPM)	Max speed (RPM)	Rated current (A)	Max current (A)	Moment of inertia
MV7E-M18D-4R415-□1	380	4400	28.01	1500	2000	10.9	27,3	68,9kg·cm ²
MV7E-M18D-4R415-□2	380	4400	28.01	1500	2000	10.9	27,3	75,39kg·cm ²
MV7E-M18D-5R515-□1	380	5500	35.02	1500	2000	13.4	33,5	110,11kg·cm ²
MV7E-M18D-5R515-□2	380	5500	35.02	1500	2000	13.4	33,5	116,6kg·cm ²
MV7E-M18D-7R515-□1	380	7500	47.75	1500	2000	17	42,5	156,61kg·cm ²
MV7E-M18D-7R515-□2	380	7500	47.75	1500	2000	17	42,5	163,09kg·cm ²

Servo motor specifications (Purposed model)

MV7E model	Voltage(V)	Power(W)	Rated torque (N·m)	Rated speed (RPM)	Max speed (RPM)	Rated current (A)	Max current (A)	Moment of inertia
MV7E-L08A-R7520-□1L	220	750	3.58	2000	2500	2,8	8,4	1,34kg·cm ²
MV7E-L08A-R7520-□2L	220	750	3.58	2000	2500	2,8	8,4	1,45kg·cm ²
MV7E-L08A-R7530-□1L	220	750	2.38	3000	4000	3,1	9,3	1,02kg·cm ²
MV7E-L08A-R7530-□2L	220	750	2.38	3000	4000	3,1	9,3	1,13kg·cm ²
MV7E-M13A-R8515-□1	220	850	5.41	1500	3000	5,4	16,2	12,98kg·cm ²
MV7E-M13A-R8515-□2	220	850	5.41	1500	3000	5,4	16,2	15,12kg·cm ²
MV7E-M13A-R8515-□1B	220	850	5.41	1500	3000	5,4	16,2	12,98kg·cm ²
MV7E-M13A-R8515-□2B	220	850	5.41	1500	3000	5,4	16,2	15,12kg·cm ²
MV7E-M13A-1R815-□1	220	1800	11.46	1500	3000	10,9	32,7	25,85kg·cm ²
MV7E-M13A-1R815-□2	220	1800	11.46	1500	3000	10,9	32,7	27,72kg·cm ²
MV7E-M13A-1R815-□1B	220	1800	11.46	1500	3000	10,9	32,7	25,85kg·cm ²
MV7E-M13A-1R815-□2B	220	1800	11.46	1500	3000	10,9	32,7	27,72kg·cm ²
MV7E-M13A-1R315-□1	220	1300	8.28	1500	3000	8,2	24,6	18,38kg·cm ²
MV7E-M13A-1R315-□2	220	1300	8.28	1500	3000	8,2	24,6	20,52kg·cm ²
MV7E-M13A-2R315-□1	220	2300	14.64	1500	3000	14	42	36,38kg·cm ²
MV7E-M13A-2R315-□2	220	2300	14.64	1500	3000	14	42	38,52kg·cm ²
MV7E-M13A-2R315-□1L	220	2300	14.64	1500	2000	9,5	28,5	36,38kg·cm ²
MV7E-M13A-2R315-□2L	220	2300	14.64	1500	2000	9,5	28,5	38,52kg·cm ²
MV7E-M18A-2R915-□1H	220	2900	18.46	1500	3000	16	40	49,56kg·cm ²
MV7E-M18A-2R915-□2H	220	2900	18.46	1500	3000	16	40	56,05kg·cm ²
MV7E-M13D-R8515-□1B	380	850	5.41	1500	3000	3,3	9,9	12,98kg·cm ²
MV7E-M13D-R8515-□2B	380	850	5.41	1500	3000	3,3	9,9	15,12kg·cm ²
MV7E-M13D-R8515-□1	380	850	5.41	1500	3000	3,3	9,9	12,98kg·cm ²
MV7E-M13D-R8515-□2	380	850	5.41	1500	3000	3,3	9,9	15,12kg·cm ²
MV7E-M13D-1R315-□1	380	1300	8.28	1500	3000	4,8	14,4	18,38kg·cm ²
MV7E-M13D-1R315-□2	380	1300	8.28	1500	3000	4,8	14,4	20,52kg·cm ²
MV7E-M13D-1R815-□1B	380	1800	11.46	1500	3000	6,6	19,8	25,58kg·cm ²
MV7E-M13D-1R815-□2B	380	1800	11.46	1500	3000	6,6	19,8	27,72kg·cm ²
MV7E-M13D-1R815-□1	380	1800	11.46	1500	3000	6,6	19,8	25,58kg·cm ²
MV7E-M13D-1R815-□2	380	1800	11.46	1500	3000	6,6	19,8	27,72kg·cm ²

Servo motor model description

MV7E - L 06 A - R40 30 - D 1 □

Product series
MV7E
MVM7

Inertia level
L: low 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 power

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

Factory management code

Mark	Axis		Oil seal		Brake	
	light axis	key axis	Yes	No	Yes	No
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
S: 20 bit multi-turn absolute optical cross shaft encoder

Rated speed (RPM) Motor braking power chart
(Estimated):
15:1500
20:2000
25:2500
30:3000

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



Servo motor specifications (Purposed model)

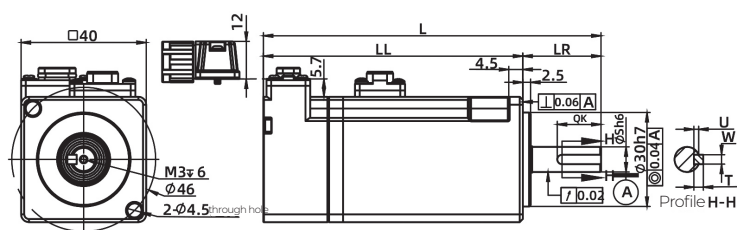
MV7E model	Voltage(V)	Power(W)	Rated torque (N.m)	Rated speed (RPM)	Max speed (RPM)	Rated current (A)	Max current (A)	Moment of inertia
MV7E-M13D-2R315-□1L	380	2900	14.64	1500	2000	5,6	16,8	36,38kg·cm ²
MV7E-M13D-2R315-□2L	380	2900	14.64	1500	2000	5,6	16,8	38,52kg·cm ²
MV7E-M13D-2R315-□1	380	2900	14.64	1500	3000	8,4	25,2	36,38kg·cm ²
MV7E-M13D-2R315-□2	380	2900	14.64	1500	3000	8,4	25,2	38,52kg·cm ²
MV7E-M18D-2R915-□1H	380	2900	18.46	1500	3000	10,7	26,8	49,56kg·cm ²
MV7E-M18D-2R915-□2H	380	2900	18.46	1500	3000	10,7	26,8	56,05kg·cm ²
MV7E-M18D-4R415-□1H	380	4400	28.01	1500	3000	16,2	40,5	68,9kg·cm ²
MV7E-M18D-4R415-□2H	380	4400	28.01	1500	3000	16,2	40,5	75,39kg·cm ²
MV7E-M18D-5R515-□1H	380	5500	35.02	1500	3000	19	47,5	110,11kg·cm ²
MV7E-M18D-5R515-□2H	380	5500	35.02	1500	3000	19	47,5	116,6kg·cm ²
MV7E-M18D-5R515-□1BH	380	5500	35.02	1500	3000	19	47,5	110,11kg·cm ²
MV7E-M18D-5R515-□2BH	380	5500	35.02	1500	3000	19	47,5	116,6kg·cm ²
MV7E-M18D-7R515-□1H	380	7500	47.75	1500	3000	27,6	69	156,6kg·cm ²
MV7E-M18D-7R515-□2H	380	7500	47.75	1500	3000	27,6	69	163,09kg·cm ²
MV7E-M18D-7R515-□1BH	380	7500	47.75	1500	3000	27,6	69	156,6kg·cm ²
MV7E-M18D-7R515-□2BH	380	7500	47.75	1500	3000	27,6	69	163,09kg·cm ²

Servo motor specifications (big power)

MV7E model	Voltage(V)	Power(W)	Rated torque (N.m)	Rated speed (RPM)	Max speed (RPM)	Rated current (A)	Max current (A)	Moment of inertia
MVM7-M20D-01115-D1FNS	380	11000	70	1500	2000	21	42	70kg·cm ²
MVM7-M20D-01115-D2FN	380	11000	70	1500	2000	21	42	80kg·cm ²
MVM7-M20D-01515-D1FNS	380	15000	96	1500	2000	29	58	100kg·cm ²
MVM7-M20D-01515-D2FN	380	15000	96	1500	2000	29	58	110kg·cm ²
MVM7-M20D-02015-D1FN	380	20000	127	1500	2000	38,5	77	147kg·cm ²
MVM7-M20D-02015-D2FN	380	20000	127	1500	2000	38,5	77	157kg·cm ²
MVM7-M20D-02215-D1FN	380	22000	140	1500	2000	42	84	171kg·cm ²
MVM7-M20D-02215-D2FN	380	22000	140	1500	2000	42	84	180kg·cm ²
MVM7-M26D-03015-D1FN	380	30000	191	1500	2000	58	116	372kg·cm ²
MVM7-M26D-03015-D2FN	380	30000	191	1500	2000	58	116	382kg·cm ²
MVM7-M26D-03715-D1FN	380	37000	236	1500	2000	72	144	445kg·cm ²
MVM7-M26D-03715-D2FN	380	37000	236	1500	2000	72	144	461kg·cm ²
MVM7-M26D-04515-D1FN	380	45000	286	1500	2000	87	174	529kg·cm ²
MVM7-M26D-04515-D2FN	380	45000	286	1500	2000	87	174	550kg·cm ²
MVM7-M26D-05515-D1FN	380	55000	350	1500	2000	106	212	639kg·cm ²
MVM7-M32D-05510-S1FN	380	55000	525	1000	1300	110	215	1370kg·cm ²
MVM7-M32D-07510-S1FN	380	75000	716	1000	1300	142	280	1830kg·cm ²
MVM7-H40D-07506-S1W	380	75000	1200	600	720	160	352	5294kg·cm ²
MVM7-M32D-09010-S1FN	380	90000	859	1000	1300	171	339	2290kg·cm ²
MVM7-M32D-10815-S1FN	380	108000	690	1500	2000	206	412	1830kg·cm ²
MVM7-M32D-11010-S1FN	380	110000	1050	1000	1300	199	385	2750kg·cm ²

Servo motor installation dimension

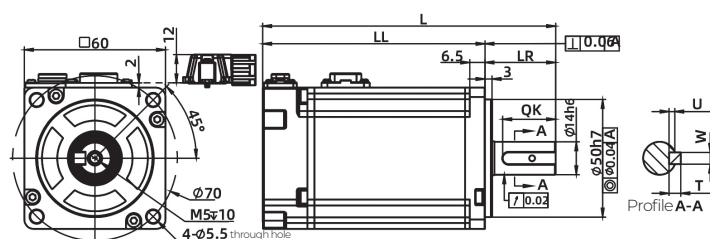
40mm flange



Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-L04A-R1030- α 1	108	83	25	8	14	1.5	3	3
MV7E-L04A-R1030- α 2	134	109	25	8	14	1.5	3	3

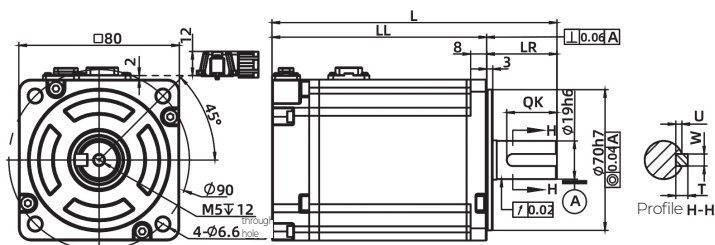
60mm flange



Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-L06A-R2030-□1	105.5	75.5	30	14	22.5	2.5	5	5
MV7E-L06A-R2030-□2	136.5	106.5	30	14	22.5	2.5	5	5
MV7E-L06A-R4030-□1	124.5	94.5	30	14	22.5	2.5	5	5
MV7E-L06A-R4030-□2	155.5	125.5	30	14	22.5	2.5	5	5
MV7E-M06A-R4030-□1	134.5	104.5	30	14	22.5	2.5	5	5
MV7E-M06A-R4030-□2	165.5	135.5	30	14	22.5	2.5	5	5
MV7E-L06A-R6030-□1	143.5	113.5	30	14	22.5	2.5	5	5
MV7E-L06A-R6030-□2	174.5	144.5	30	14	22.5	2.5	5	5

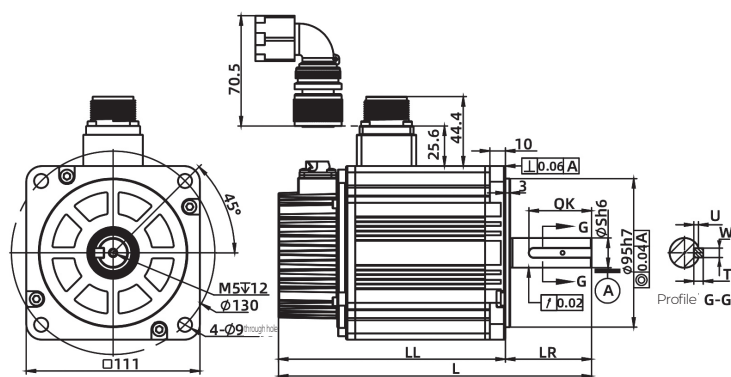
80mm flange



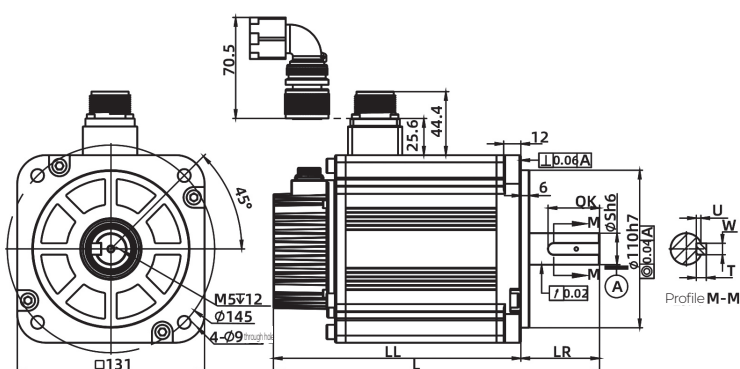
Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-L08A-R7520-□1L	156	121	35	19	25	3	6	6
MV7E-L08A-R7520-□2L	188	153	35	19	25	3	6	6
MV7E-L08A-R7530-□1L	142	107	35	19	25	3	6	6
MV7E-L08A-R7530-□2L	174	139	35	19	25	3	6	6
MV7E-M08A-R7530-□1L	152	117	35	19	25	3	6	6
MV7E-M08A-R7530-□2L	184.5	149.5	35	19	25	3	6	6
MV7E-L08A-R7530-□1	142	107	35	19	25	3	6	6
MV7E-L08A-R7530-□2	174	139	35	19	25	3	6	6
MV7E-M08A-R7530-□1	152	117	35	19	25	3	6	6
MV7E-M08A-R7530-□2	184.5	149.5	35	19	25	3	6	6
MV7E-L08A-1R030-□1	156	121	35	19	25	3	6	6
MV7E-L08A-1R030-□2	188	153	35	19	25	3	6	6

110mm flange



130mm flange



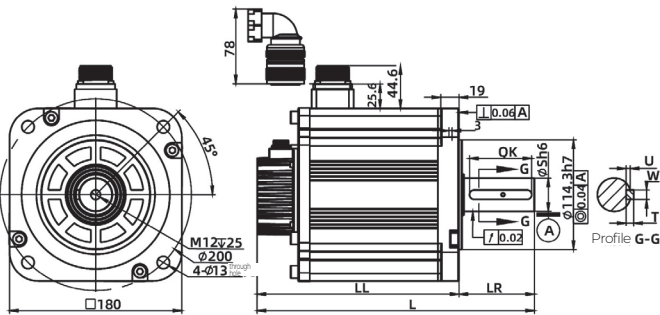
Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-M11A-1R230- α 1	190	135	55	19	40	3	6	6
MV7E-M11A-1R230- α 2	221.2	166.2	55	19	40	3	6	6
MV7E-M11A-1R530- α 1	200	145	55	19	40	3	6	6
MV7E-M11A-1R530- α 2	231.2	176.2	55	19	40	3	6	6
MV7E-M11A-1R830- α 1	210	155	55	19	40	3	6	6
MV7E-M11A-1R830- α 2	241.2	186.2	55	19	40	3	6	6

Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-M13A-R8515-α1	193	138	55	22	36	3.2	8	7
MV7E-M13A-R8515-α2	221.2	166.2	55	22	36	3.2	8	7
MV7E-M13A-1R020-α1	193	138	55	22	36	3.2	8	7
MV7E-M13A-1R020-α2	221.2	166.2	55	22	36	3.2	8	7
MV7E-M13A-1R315-α1	208	153	55	22	36	3.2	8	7
MV7E-M13A-1R315-α2	236.2	181.2	55	22	36	3.2	8	7
MV7E-M13A-1R520-α1	208	153	55	22	36	3.2	8	7
MV7E-M13A-1R520-α2	236.2	181.2	55	22	36	3.2	8	7
MV7E-M13A-1R815-α1	228	173	55	22	36	3.2	8	7
MV7E-M13A-1R815-α2	256.2	201.2	55	22	36	3.2	8	7
MV7E-M13A-2R020-α1	228	173	55	22	36	3.2	8	7
MV7E-M13A-2R020-α2	256.2	201.2	55	22	36	3.2	8	7
MV7E-M13A-2R315-α1L	258	203	55	22	36	3.2	8	7
MV7E-M13A-2R315-α2L	286.2	231.2	55	22	36	3.2	8	7
MV7E-M13A-3R020-α1	258	203	55	22	36	3.2	8	7
MV7E-M13A-3R020-α2	286.2	231.2	55	22	36	3.2	8	7
MV7E-M13D-R8515-α1	193	138	55	22	36	3.2	8	7
MV7E-M13D-R8515-α2	221.2	166.2	55	22	36	3.2	8	7
MV7E-M13D-1R020-α1	193	138	55	22	36	3.2	8	7
MV7E-M13D-1R020-α2	221.2	166.2	55	22	36	3.2	8	7
MV7E-M13D-1R315-α1	208	153	55	22	36	3.2	8	7
MV7E-M13D-1R315-α2	236.2	181.2	55	22	36	3.2	8	7
MV7E-M13D-1R520-α1	208	153	55	22	36	3.2	8	7
MV7E-M13D-1R520-α2	236.2	181.2	55	22	36	3.2	8	7
MV7E-M13D-1R815-α1	228	173	55	22	36	3.2	8	7
MV7E-M13D-1R815-α2	256.2	201.2	55	22	36	3.2	8	7
MV7E-M13D-2R020-α1	228	173	55	22	36	3.2	8	7
MV7E-M13D-2R020-α2	256.2	201.2	55	22	36	3.2	8	7
MV7E-M13D-2R315-α1L	258	203	55	22	36	3.2	8	7
MV7E-M13D-2R315-α2L	286.2	231.2	55	22	36	3.2	8	7
MV7E-M13D-3R020-α1	258	203	55	22	36	3.2	8	7
MV7E-M13D-3R020-α2	286.2	231.2	55	22	36	3.2	8	7
MV7E-M13A-R8515-α1B	193	138	55	19	40	3.1	6	6
MV7E-M13A-R8515-α2B	221.2	166.2	55	19	40	3.1	6	6
MV7E-M13A-1R815-α1B	228	173	55	24	36	3.3	8	7
MV7E-M13A-1R815-α2B	256.2	201.2	55	24	36	3.3	8	7
MV7E-M13D-R8515-α1B	193	138	55	19	40	3.1	6	6
MV7E-M13D-R8515-α2B	221.2	166.2	55	19	40	3.1	6	6
MV7E-M13D-1R815-α1B	228	173	55	24	36	3.3	8	7
MV7E-M13D-1R815-α2B	256.2	201.2	55	24	36	3.3	8	7

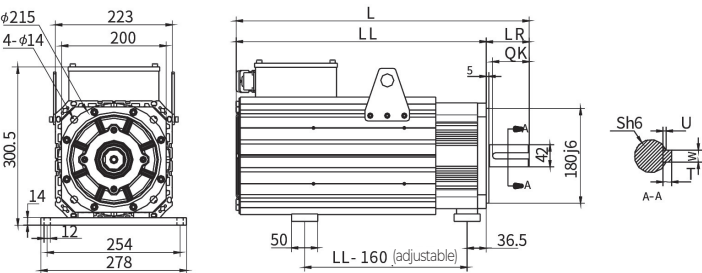
180mm flange



Unit:mm

Model	L	LL	LR	S	QK	U	W	T
MV7E-M18A-2R915-□1	266	187	79	35	65	4.3	10	8
MV7E-M18A-2R915-□2	307.5	228.5	79	35	65	4.3	10	8
MV7E-M18A-4R415-□1	290	211	79	35	65	4.3	10	8
MV7E-M18A-4R415-□2	331.5	252.5	79	35	65	4.3	10	8
MV7E-M18D-2R915-□1	266	187	79	35	65	4.3	10	8
MV7E-M18D-2R915-□2	307.5	228.5	79	35	65	4.3	10	8
MV7E-M18D-2R915-□1H	266	187	79	35	65	4.3	10	8
MV7E-M18D-2R915-□2H	307.5	228.5	79	35	65	4.3	10	8
MV7E-M18D-4R415-□1	290	211	79	35	65	4.3	10	8
MV7E-M18D-4R415-□2	331.5	252.5	79	35	65	4.3	10	8
MV7E-M18D-4R415-□1H	290	211	79	35	65	4.3	10	8
MV7E-M18D-4R415-□2H	331.5	252.5	79	35	65	4.3	10	8
MV7E-M18D-5R515-□1	325.5	246.5	79	35	65	4.3	10	8
MV7E-M18D-5R515-□2	367	288	79	35	65	4.3	10	8
MV7E-M18D-5R515-□1H	325.5	246.5	79	35	65	4.3	10	8
MV7E-M18D-5R515-□2H	367	288	79	35	65	4.3	10	8
MV7E-M18D-7R515-□1	372.5	293.5	79	35	65	4.3	10	8
MV7E-M18D-7R515-□2	414	335	79	35	65	4.3	10	8
MV7E-M18D-7R515-□1H	372.5	293.5	79	35	65	4.3	10	8
MV7E-M18D-7R515-□2H	414	335	79	35	65	4.3	10	8
MV7E-M18D-5R515-□1BH	359.5	246.5	113	42	96	4.2	12	10
MV7E-M18D-5R515-□2BH	401	288	113	42	96	4.2	12	10
MV7E-M18D-7R515-□1BH	406.5	293.5	113	42	96	4.2	12	10
MV7E-M18D-7R515-□2BH	448	335	113	42	96	4.2	12	10

200mm flange

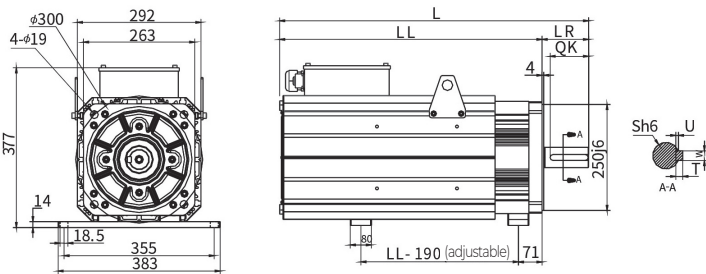


Unit:mm

Model	L	LL	LR	S	U	W	T	QK
MVM7-M20D-01115-□1FNS	455	373	82	42	5	12	8	56
MVM7-M20D-01515-□1FNS	528	446	82	42	5	12	8	56
MVM7-M20D-02015-□1FN	560	478	82	42	4	12	8	70
MVM7-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

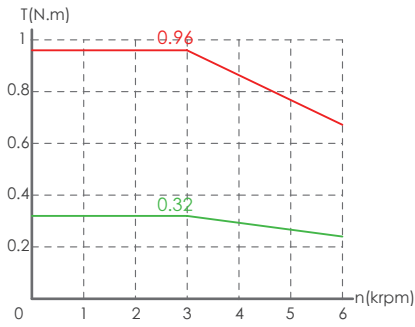
Model	L	LL	LR	S	U	W	T	QK
MVM7-M26D-03015-□1FN	640	530	110	48	4.5	14	9	90
MVM7-M26D-03715-□1FN	684	574	110	48	4.5	14	9	90
MVM7-M26D-04515-□1FN	727	617	110	48	4.5	14	9	90
MVM7-M26D-05515-□1FN	795	685	110	48	4.5	14	9	90

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

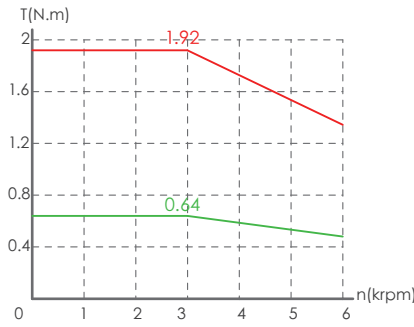
Servo motor torque characteristics

Note: " — " is the rated torque, " — " is the instantaneous maximum torque.

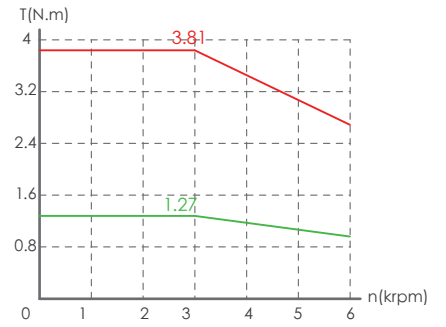
MV7E-L04A-R1030-□□



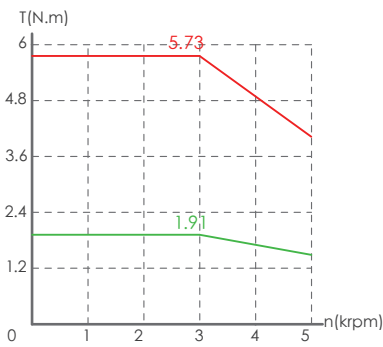
MV7E-L06A-R2030-□□



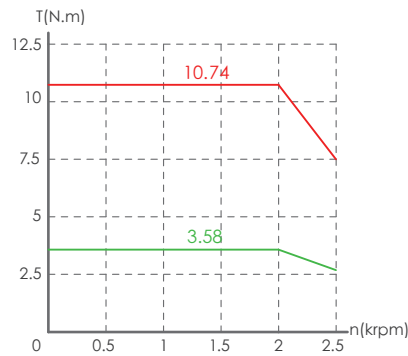
MV7E-□06A-R4030-□□



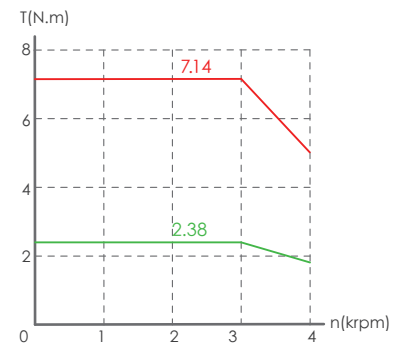
VM7E-L06A-R6030-□□



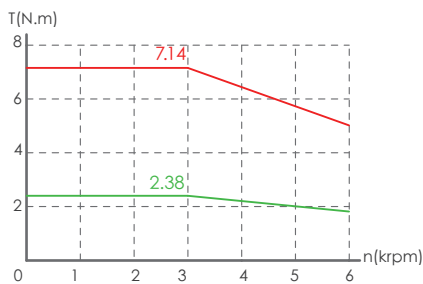
MV7E-L08A-R7520-□□ L



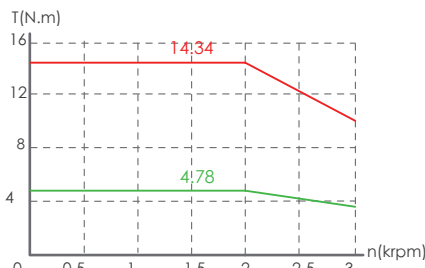
MV7E-L08A-R7530-□□ L



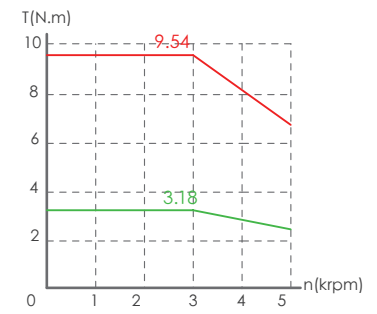
MV7E-□08A-R7530-□□



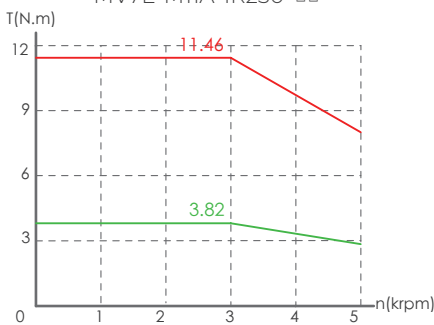
MV7E-M13-□1R020-□□



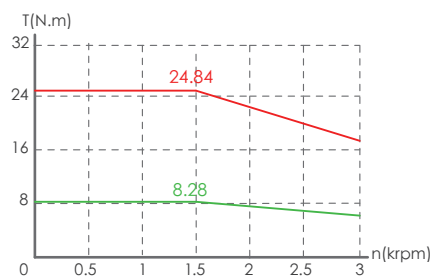
MV7E-L08A-1R030-□□



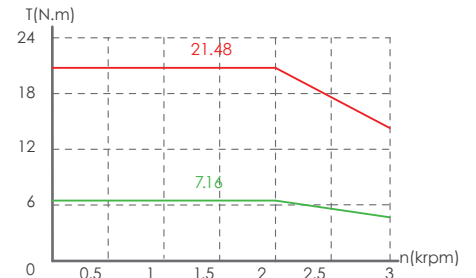
MV7E-M11A-1R230-□□



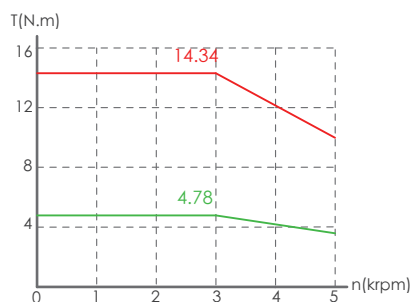
MV7E-M13-□1R315-□□



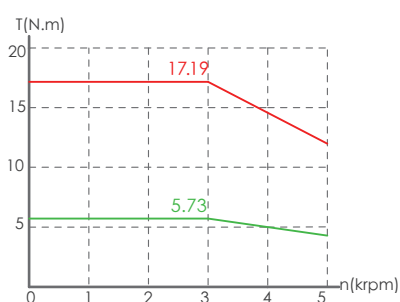
MV7E-M13-□1R520-□□



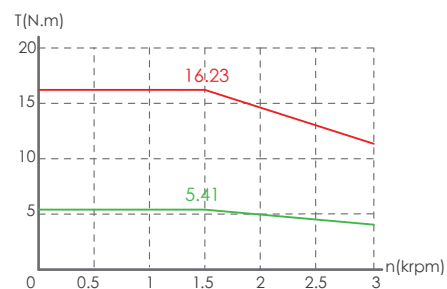
MV7E-M11A-1R530-□□



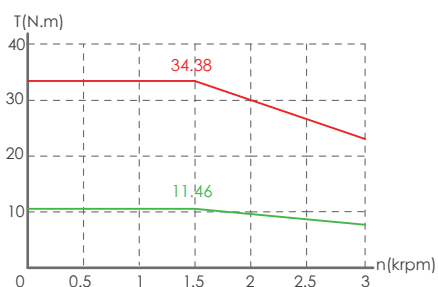
MV7E-M11A-1R830-□□



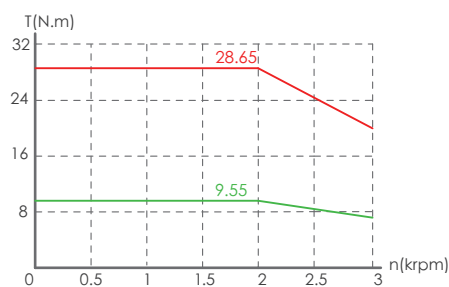
MV7E-M13□-R8515-□□



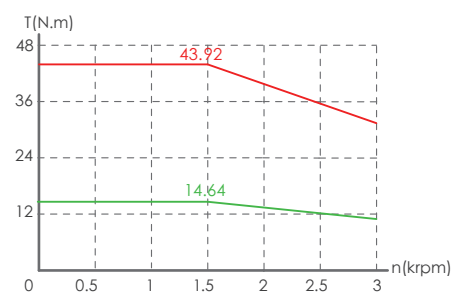
MV7E-M13□-1R815-□□



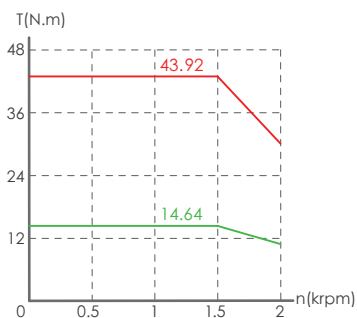
MV7E-M13□-2R020-□□



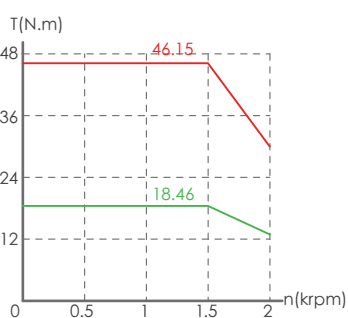
MV7E-M13□-2R315-□□



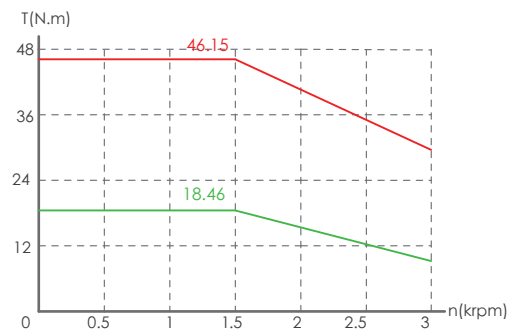
MV7E-M13□-2R315-□□L



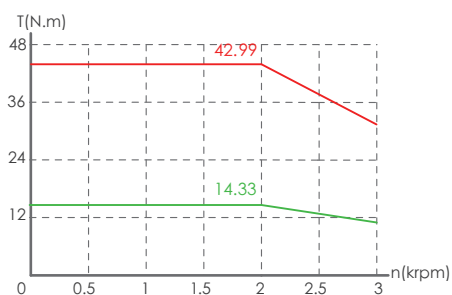
MV7E-M18□-2R915-□□



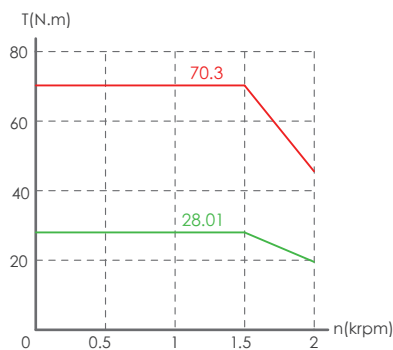
MV7E-M18□-2R915-□□H



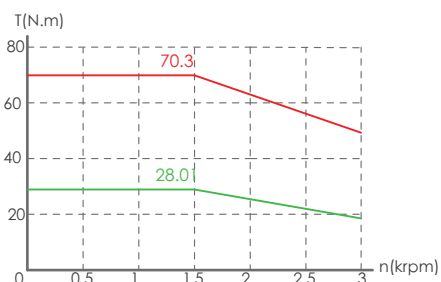
MV7E-M13□-3R020-□□



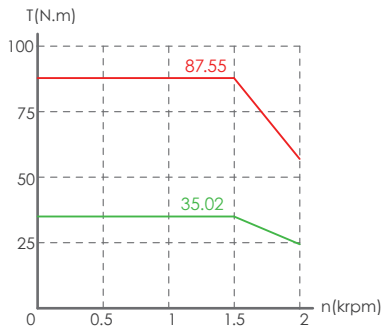
MV7E-M18□-4R415-□□



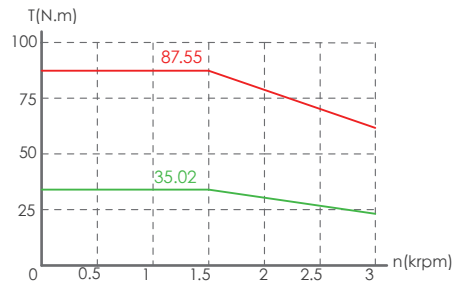
MV7E-M18□-4R415-□□H



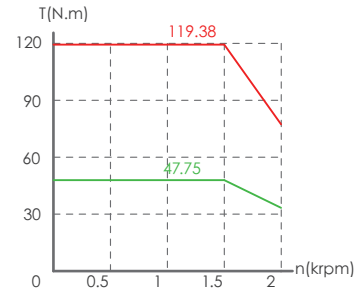
MV7E-M18-5R515-□□



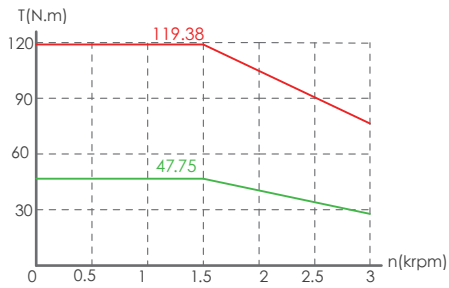
MV7E-M18-5R515-□□H



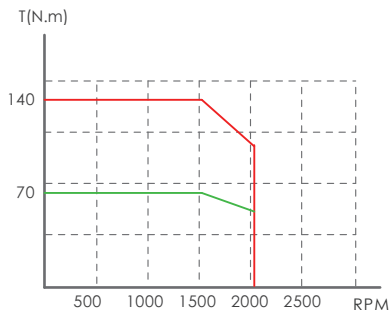
MV7E-M18-7R515-□□



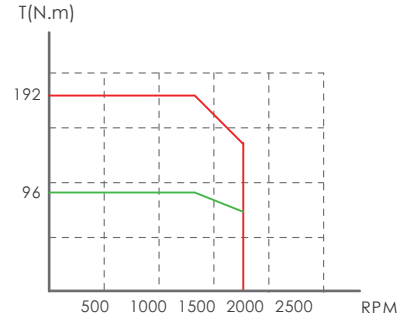
MV7E-M18-7R515-□□H



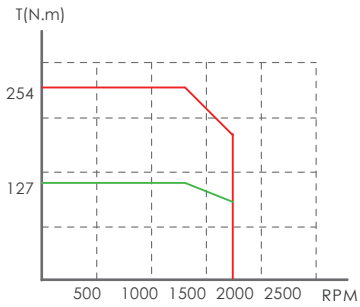
MVM7-M20D-01115-□1FNS



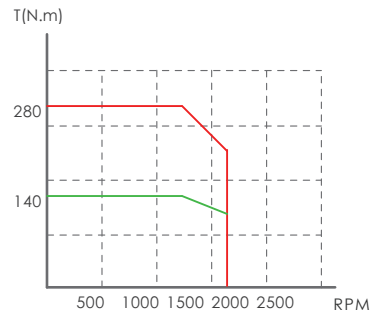
MVM7-M20D-01515-□1FNS



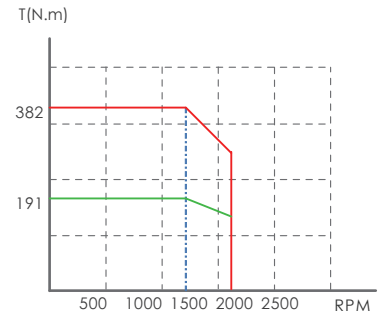
MVM7-M20D-02015-□1FN



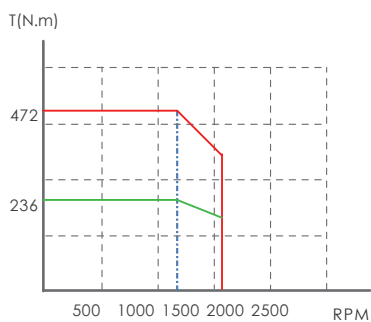
MVM7-M20D-02215-□1FN



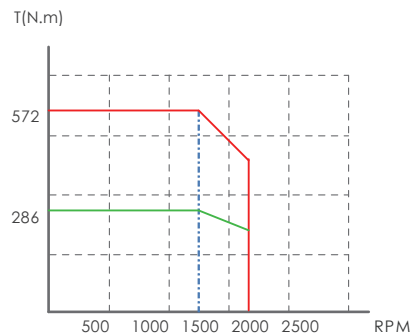
MVM7-M26D-03015-□1FN



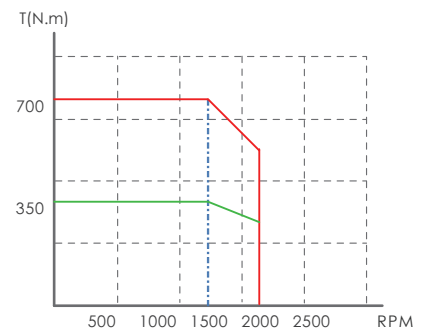
MV7-M26D-03715-□1FN



MV7-M26D-04515-□1FN



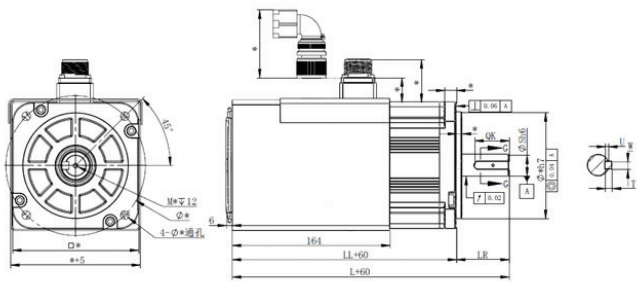
MVM7-M26D-05515-□1FN



Fan column

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

Motor dimension with fans



After the motor is equipped with fan, the machine length is increased by 60mm, and the other dimensions remain unchanged.

Fan specification

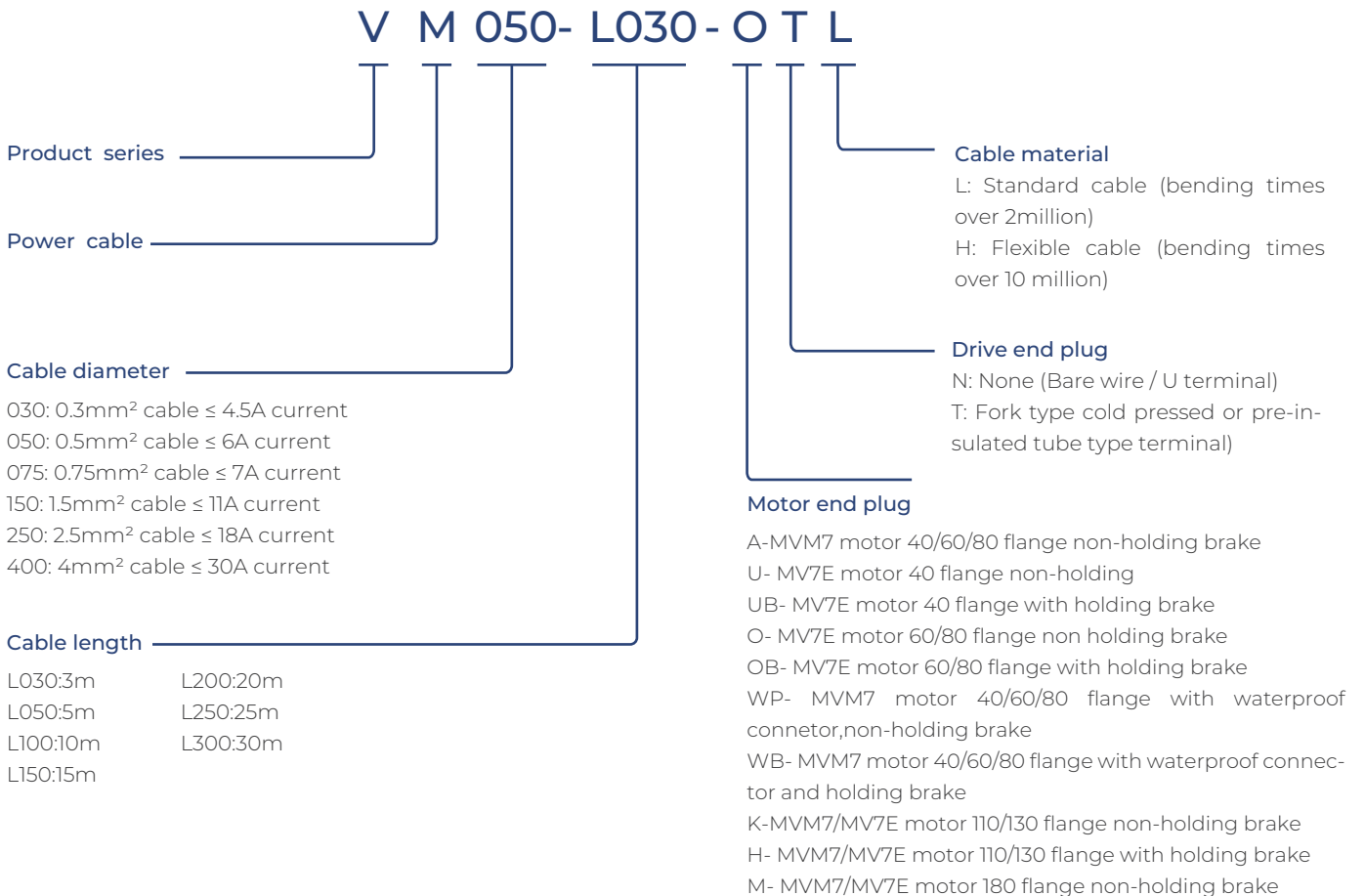
	F12038N27A230
Voltage level / V	230±15AC
Rated current / A	0.135A
Rated air volume / CFM	89
Rated speed / rpm	2650

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
180	Z176-S180(24V)50C38	50	24±10%	2

SD700 Servo drive cable introduction

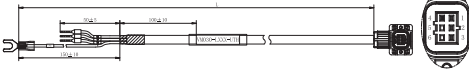
Power cable naming rules



Motor power cable

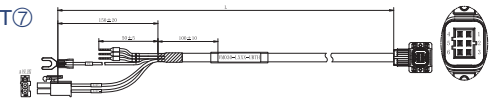
VM030-④-UT⑦

40 flange
motor power
cable (without brake)



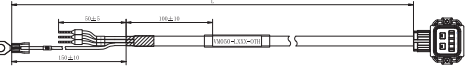
VM030-④-UBT⑦

40 flange
motor power
cable (with brake)



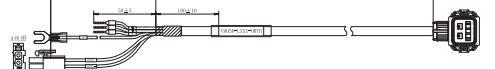
VM050-④-OT⑦

60/80 flange
motor power
cable (without brake)



VM050-④-OBT⑦

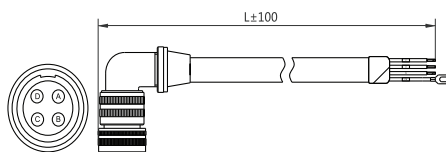
60/80 flange
motor power
cable (with brake)



VM150-④-KN⑦

VM250-④-KN⑦

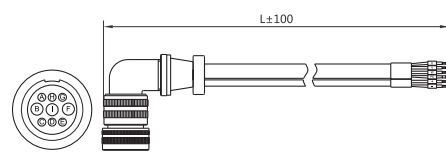
110/130 flange
motor power
cable (without brake)



VM150-④-HN⑦

VM250-④-HN⑦

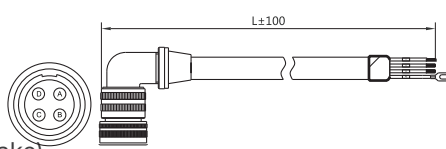
110/130 flange
motor power
cable



VM250-④-MN⑦

VM400-④-MN⑦

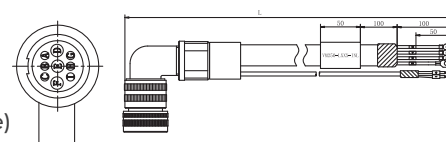
180 flange
motor power
cable (without brake)



VM250-④-IN⑦

VM400-④-IN⑦

180 flange
motor 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 L200:20m

L050:5m L250:25m

L100:10m L300:30m

L150:15m

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°C)

Battery

N: No battery

D: With battery

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

Motor end plug

A: 16M-9A(9-pin integrated injection mold-
ing aviation plug)

S: SC-MC7S-A6 (7-pin motor connector)

Drive end plug

2: 6 pin 1394 plug

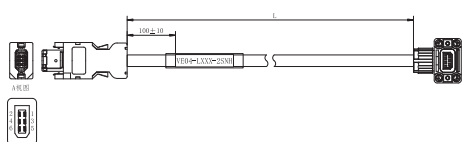
Note: The wire length of the encoder wire defined as "2S" is more than 15 meters, you need to use the solution of the encoder wire defined as "2A" plus the adapter wire.

Encoder cable

VE04-④-2SN⑧

40/60/80

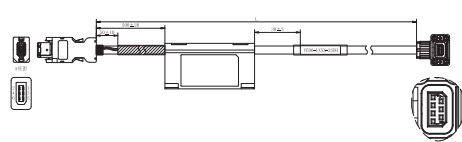
flange motor
encoder cable
(no battery)



VE06-④-2SD⑧

40/60/80

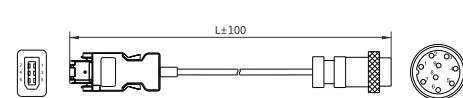
flange motor
encoder cable
(with battery)



VE04-④-2AN⑧

110 flange

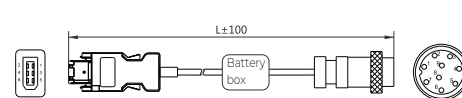
and above
motor encoder
cable (no battery box)



VE06-④-2AD⑧

110 flange

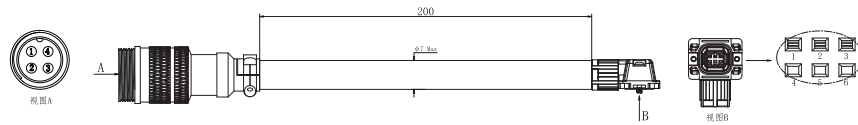
and above
motor encoder
cable (with battery box)



Transfer cable

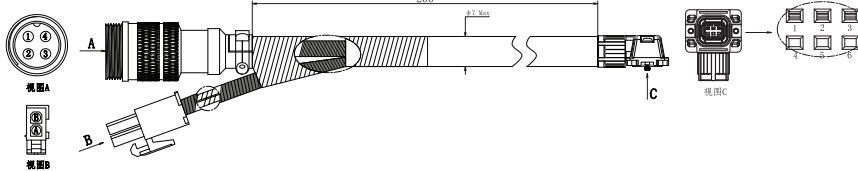
D-VM050-L020-A1-L

MVM7 to MV7E,
40 flange power
transfer cable (0.2m)



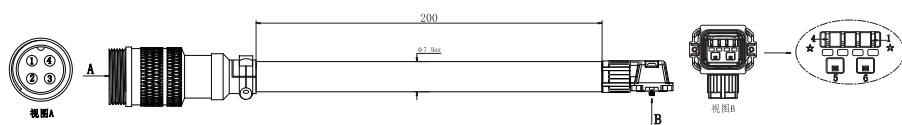
D-VM050-L020-AB2-L

MVM7 to MV7E,
40 flange power
transfer cable
(with brake, 0.2m)



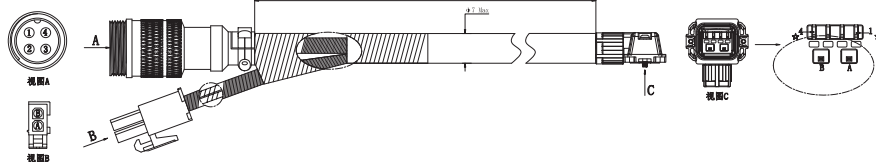
D-VM050-L020-AC1-L

MVM7 to MV7E,
60/80 flange power
transfer cable (0.2m)



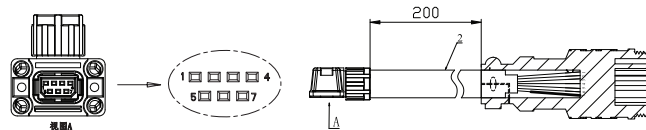
D-VM050-L020-AC2-L

MVM7 to MV7E,
60/80 flange power
transfer cable
(with brake, 0.2m)



VEF07-L020-ANL

MVM7 to MV7E,
40/60/80 flange encoder
transfer cable (0.2m)



Braking resistor selection

Model	Braking voltage	Internal resistor	Min external resistance	Max external resistance
MSD700-1R8A	380V	None	40Ω	200Ω
MSD700-3R3A	380V	None	40Ω	100Ω
MSD700-5R5A	380V	40Ω 60W	25Ω	70Ω
MSD700-7R6A	380V	40Ω 60W	15Ω	50Ω
MSD700-9R5A	380V	40Ω 60W	15Ω	40Ω
MSD700-120A	380V	30Ω 200W	10Ω	30Ω
MSD700-160A	380V	30Ω 200W	10Ω	30Ω
MSD700-2R5D	700V	80Ω 60W	80Ω	220Ω
MSD700-3R8D	700V	80Ω 60W	55Ω	180Ω
MSD700-6R0D	700V	40Ω 60W	35Ω	110Ω
MSD700-8R4D	700V	40Ω 60W	25Ω	85Ω
MSD700-110D	700V	40Ω 60W	25Ω	70Ω
MSD700-170D	700V	30Ω 200W	30Ω	50Ω
MSD700-240D	700V	30Ω 200W	15Ω	40Ω
MSD700-300D	700V	30Ω 200W	15Ω	30Ω
MSD700-500D	700V	None	10Ω	20Ω
MSD700-600D	700V	None	10Ω	20Ω
MSD700-700D	700V	None	10Ω	15Ω
MSD700-800D	700V	None	10Ω	15Ω
MSD700-121D	700V	None	8Ω	10Ω
MSD700-171D	700V	None	6Ω	8Ω



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