

DA200 AC Servo System





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/ Company profile

INVT INDUSTRIAL TECHNOLOGY (SHANGHAI) CO.,LTD. (formerly Shanghai KINWAY Technologies, Inc) is established in 2005 by several Chinese doctors from the U. S. who are outstanding in the field of automatic control. As the wholly-owned subsidiary of INVT(002334), this sino-foreign joint venture company has promoted the decades of successful technology development and management experience in the famous overseas company to China, focused on servo drive products and system integration, integrated the research and development, production, sales and service, to rank in the national high and new technology enterprises and innovative companies in Shanghai.

Relying on the core leading international technology of permanent magnet synchronous motor, power electronics, digital control, sensors, network and field bus, the company has a series of high-end servo systems and special dedicated computer control system. Its products of INVT and KINWAY are widely used in the field of CNC machine tools, printing and packaging machinery, electronic equipment, industrial robots, plastic machinery, textile printing and dyeing. Its technology is in the leading level and some of them even rival the international first-class level.

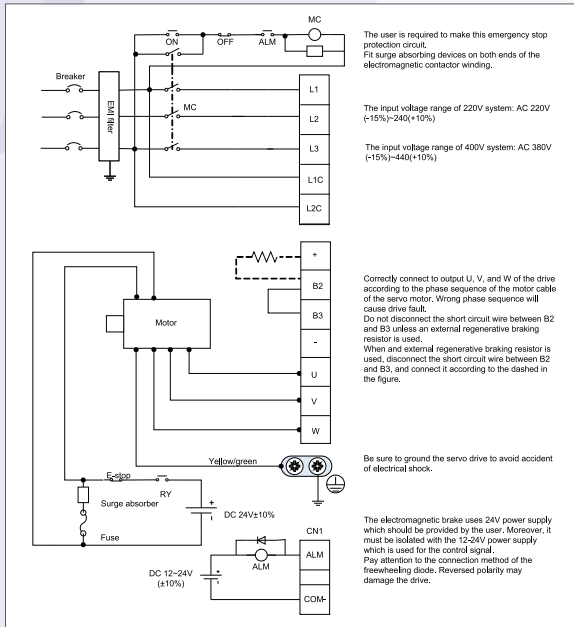
The sharp sense to market and needs ensure the creativity and flexibility of the company's products; advanced integrated product development management, comprehensive product research and development, testing and automation, informationization production ensure the high reliability and performance of the company's products; distributed domestic offices, after-sales service center and technical support team provide solutions, technical training and professional security services support to customers.

The company is striving to enhance the equipment manufacturing industry through leading servo drive and automation technology, to create more value and competitiveness for customers.

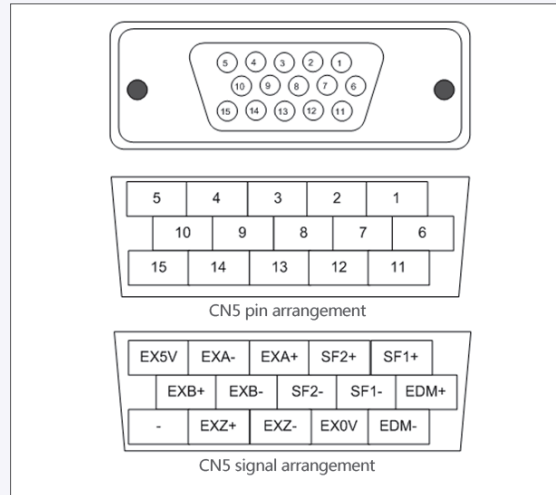


User interface

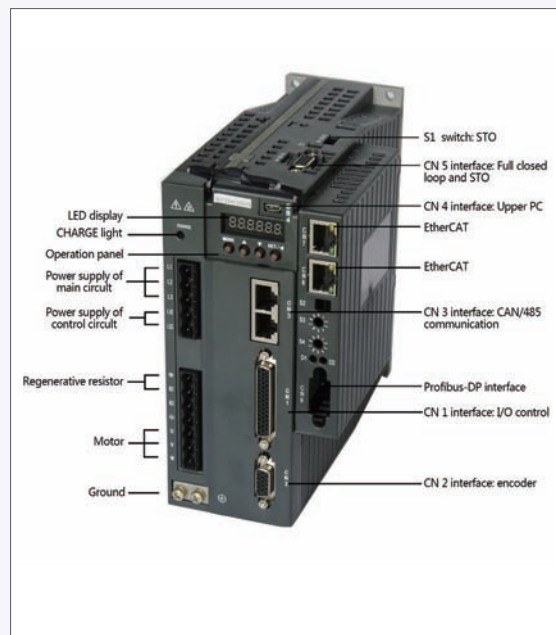
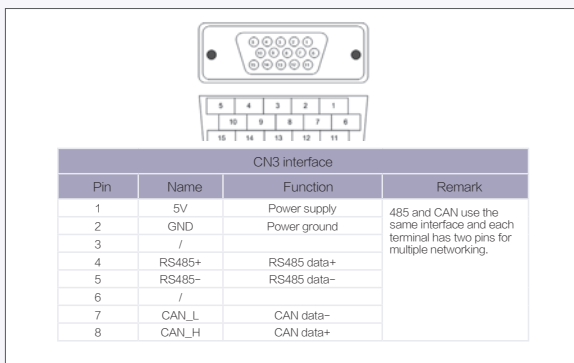
Terminals of the main circuit



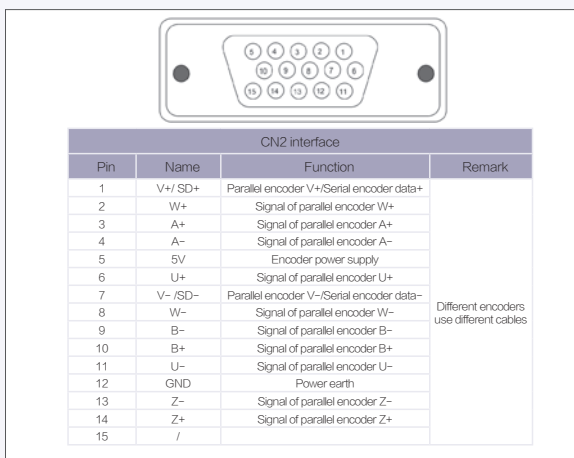
CN5 terminals



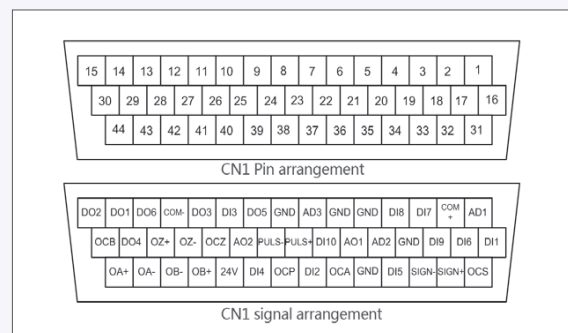
CN3 terminals



CN2 terminals



CN1 terminals



/ Function and performance

1 Rapid speed response

Speed response frequency is more than 2.0 kHz, reducing the adjusting time and ranking the top in the circle.

2 Excellent positioning accuracy

2500-wire incremental, 17/20-bit absolute and 16-bit rotating transformer encoders are applied to increase the positioning accuracy and enhance the stability.

3 Close-loop control

Support the external encoder or grating ruler for full closed loop control and the gap shadow reduction and higher positioning accuracy.

4 Internal position control

128-step internal position control and simple programming through terminals combination for less PLC units and cost.

5 Various communication interface

Modbus, CANopen, PROFIBUS-DP, EtherCAT, MotionNet and other bus communication, long-distance, high-speed multi-axis synchronous control through networking.

6 CAM function

Embedded CAM function for the flying shear, paper printing, textile sending and so on. The user can make or modify the internal cam curve automatically or manually through PC software.

7 Input and output signal distribution

channels of digital and 6 channels of analog input and output signal can be distributed by parameters. ServoPlover software can be modified by special interface.

/ Easy operation

1 The load inertia identification

Online and offline inertia identification, Automatic identification corresponds to the internal gain settings to achieve the optimal performance and shorten the adjusting time of the system.

2 Simple gain adjustment and gain switching

The speed loop, position loop gain and filtering time constant can be set by the setting of rigid in different applications. The rigid can be set to simplify the commissioning, support two groups of gain setting and the setting can be switched by IO input, communication and internal variable for the flexible demand during the processing.

3 Automatic/manual notch filter

Support automatic detection resonance frequency and automatic trap setting, to reduce the mechanical resonance noise and vibration caused by mechanical resonance.

There are two groups of automatic and manual notch filters respectively, the setting frequency is 50~5000Hz and can be set to the notch depth.

4 Automatic/manual vibration-controlling filter

Overcome the low-frequency mechanical resonance and the vibration of long swing arm mechanism effectively through special low-frequency vibration suppression algorithm.

5 Speed observer

Internal speed observer to improve the accuracy and stability of speed control.

6 Disturbance control

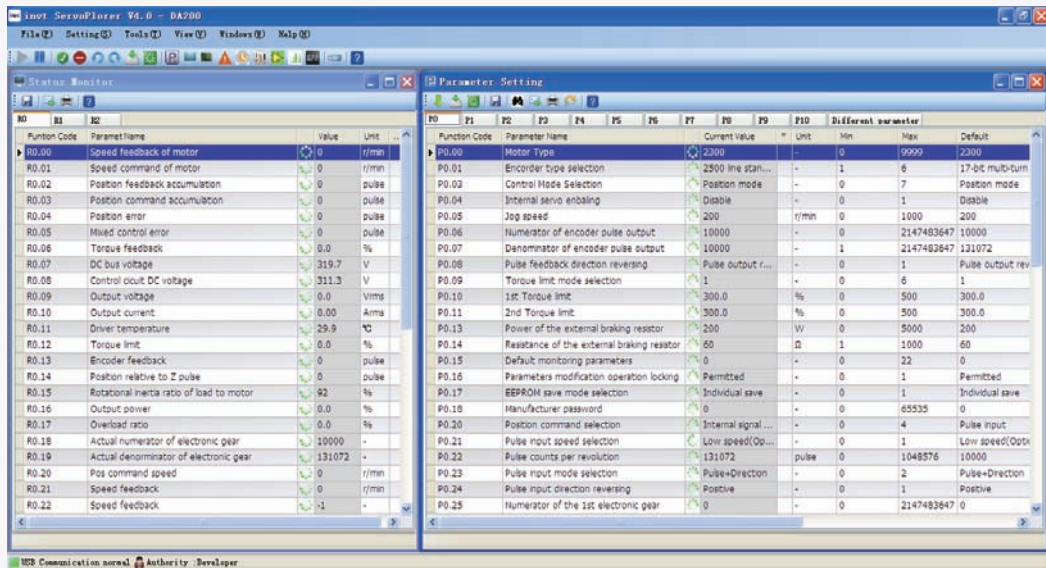
To compensate the impact of performance control when the load disturbance and parameter changes, increase the robustness of the system and improve the command response.

7 The friction torque compensation

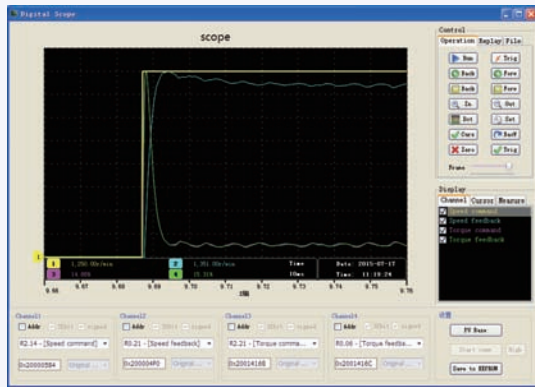
The function of friction torque compensation, to reduce the impact of static friction when direction changing and improve the command response when low speed operation.

Powerful PC software — ServoPlover V4.0

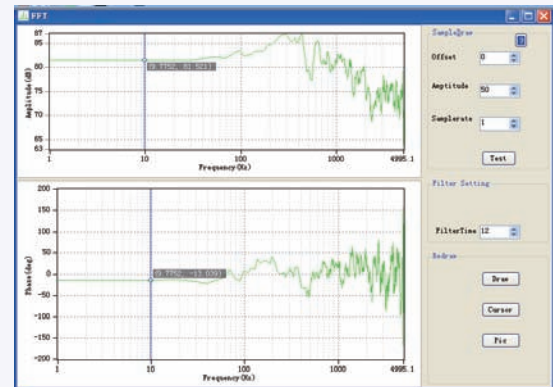
Easy parameters setting and monitoring operation interface



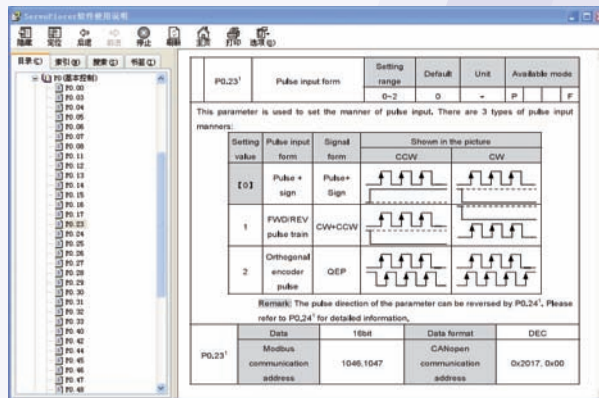
Online oscilloscope monitoring with USB communication for 4-channel waves (125us)



Frequency characteristic test for the system resonance frequency



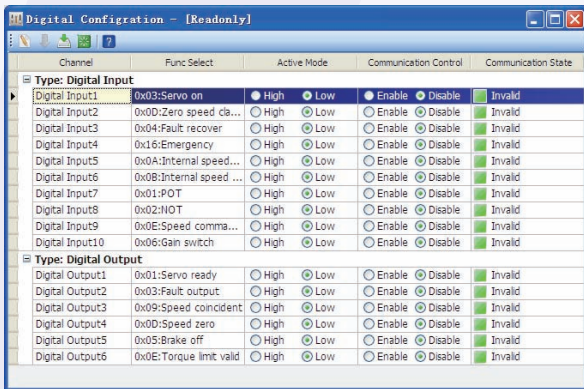
Built-in detailed parameters instructions



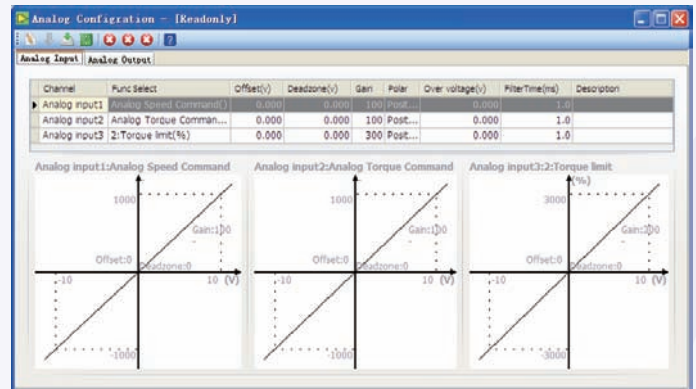
Powerful PC software — ServoPlover V4.0

Easy parameters setting and monitoring operation interface

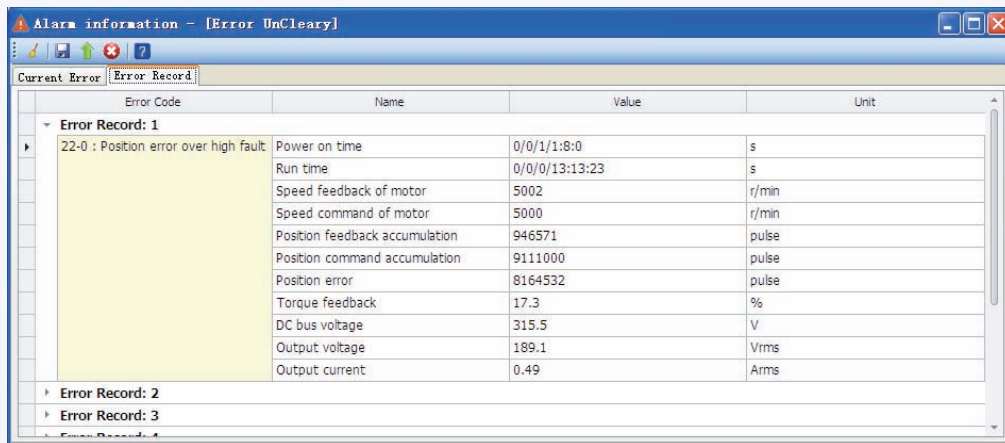
The valid logic and function configuration can be selected by the digital input and output signal



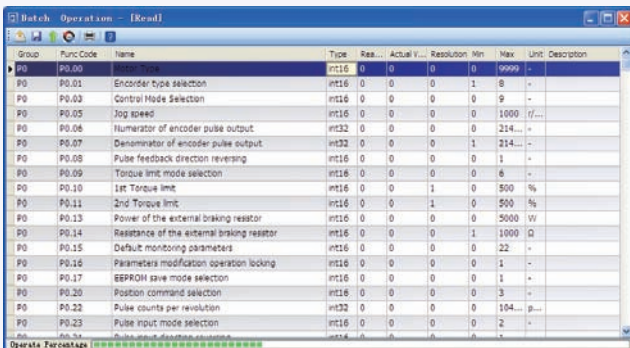
The parameters of gain, zero deviation and dead zone can be set through the analog input and output signal



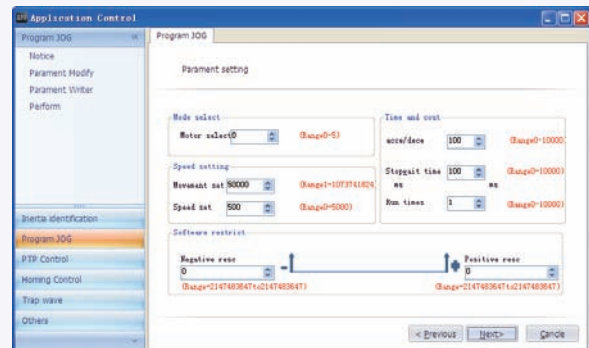
Read the real-time fault information and fault record



Save the parameters for later copying through the mass reading function



Various application controls for commissioning



/ Naming of the drive

SV-DA200-0R4-2-S 5

A B C D E F

A

Sign	Product
SV	Servo series products

D

Sign	Input voltage
2	220VAC
4	400VAC

B

Sign	Product Series
DA200	Product series

E

Sign	Machine type
E	Pulse
S	Standard
C	CANopen bus
P	PROFIBUS-DP bus
N	EtherCAT bus
M	MotionNet bus
T	ECAM

C

Sign	Power ratings
R05	50W
0R1	100W
0R2	200W
0R4	400W
0R7	750W
1R0	1.0kW
1R5	1.5kW
2R0	2.0kW
3R0	3.0kW
4R4	4.4kW
5R5	5.5kW
7R5	7.5kW
011	11kW
015	15kW

F

Sign	Available encoder type
Null	2500-wire standard incremental
	2500-wire multiplexed data line incremental
	17-bit single circle absolute value
	17-bit multiple circle absolute value
5	20-bit single circle absolute value
	20-bit multiple circle absolute value
7	12-bit rotary transformer
8	16-bit rotary transformer

Difference between machine types

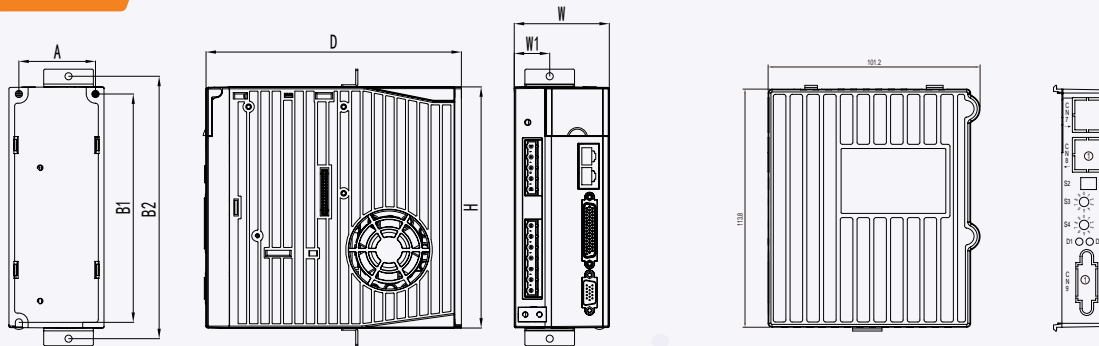
Code	Type	Pulse input	16bit analog	Full closed-loop	STO	RS485	Canopen	Profibus-dp	Ethercat	MotionNet	ECAM
E	Pulse	✓	X	✓	X	✓	X	X	X	X	X
S	Standard	✓	✓	✓	✓	✓	X	X	X	X	X
C	CAN	X	X	X	X	X	✓	X	X	X	X
P	PROFIBUS-DP	X	X	X	X	X	X	✓	X	X	X
N	EtherCAT	X	X	X	X	X	X	X	✓	X	X
M	MotionNet	X	X	✓	X	✓	X	X	X	✓	X
T	ECAM	✓	X	✓	X	✓	X	X	X	X	✓

Power ratings and volumes

Power ratings and volumes

Model	Input	Output		Volume
	Voltage (V)	Power (kW)	Rated current (A)	
SV-DA200-0R2-2	Single/Three phase 220	0.2	1.8	A
SV-DA200-0R4-2	Single/Three phase 220	0.4	2.8	A
SV-DA200-0R7-2	Single/Three phase 220	0.75	4.5	B
SV-DA200-1R0-2	Single/Three phase 220	1.0	5	B
SV-DA200-1R5-2	Three phase 220	1.5	7.6	B
SV-DA200-2R0-2	Three phase 220	2.0	10	D
SV-DA200-3R0-2	Three phase 220	3.0	13	D
SV-DA200-4R4-2	Three phase 220	4.4	16.5	D
SV-DA200-1R0-4	Three phase 400	1.0	3.5	B
SV-DA200-1R5-4	Three phase 400	1.5	4.5	B
SV-DA200-2R0-4	Three phase 400	2.0	6.5	C
SV-DA200-3R0-4	Three phase 400	3.0	8.5	C
SV-DA200-4R4-4	Three phase 400	4.4	12	D
SV-DA200-5R5-4	Three phase 400	5.5	16	D

Drive dimension



Braking resistors

Model	External dimension			Installation dimension				Installation (mm)
	H (mm)	W (mm)	D (mm)	A (mm)	B1 (mm)	B2 (mm)	W1 (mm)	
SV-DA200-0R2-2	170	45	170	31	162	185	22.5	M4(Φ5)
SV-DA200-0R4-2								
SV-DA200-0R7-2								
SV-DA200-1R0-2	170	67	180	54	162	185	25	M4(Φ5)
SV-DA200-1R5-2								
SV-DA200-2R0-2								
SV-DA200-3R0-2	230	92	190	79	222	245	25	M4(Φ5)
SV-DA200-4R4-2								
SV-DA200-1R0-4								
SV-DA200-1R5-4	170	67	180	54	162	185	25	M4(Φ5)
SV-DA200-2R0-4								
SV-DA200-3R0-4								
SV-DA200-4R4-4	230	92	190	79	222	245	25	M4(Φ5)
SV-DA200-5R5-4								

Model	Embedded braking resistor	Min. resistance of external braking resistors
SV-DA200-0R2-2	/	60Ω
SV-DA200-0R4-2	/	60Ω
SV-DA200-0R7-2	30Ω60W	30Ω
SV-DA200-1R0-2	30Ω60W	30Ω
SV-DA200-1R5-2	30Ω60W	20Ω
SV-DA200-2R0-2	15Ω120W	15Ω
SV-DA200-3R0-2	15Ω120W	15Ω
SV-DA200-4R4-2	15Ω120W	15Ω
SV-DA200-1R0-4	60Ω60W	60Ω
SV-DA200-1R5-4	60Ω60W	60Ω
SV-DA200-2R0-4	60Ω60W	40Ω
SV-DA200-3R0-4	60Ω60W	30Ω
SV-DA200-4R4-4	30Ω120W	30Ω
SV-DA200-5R5-4	30Ω120W	30Ω

Technical specifications

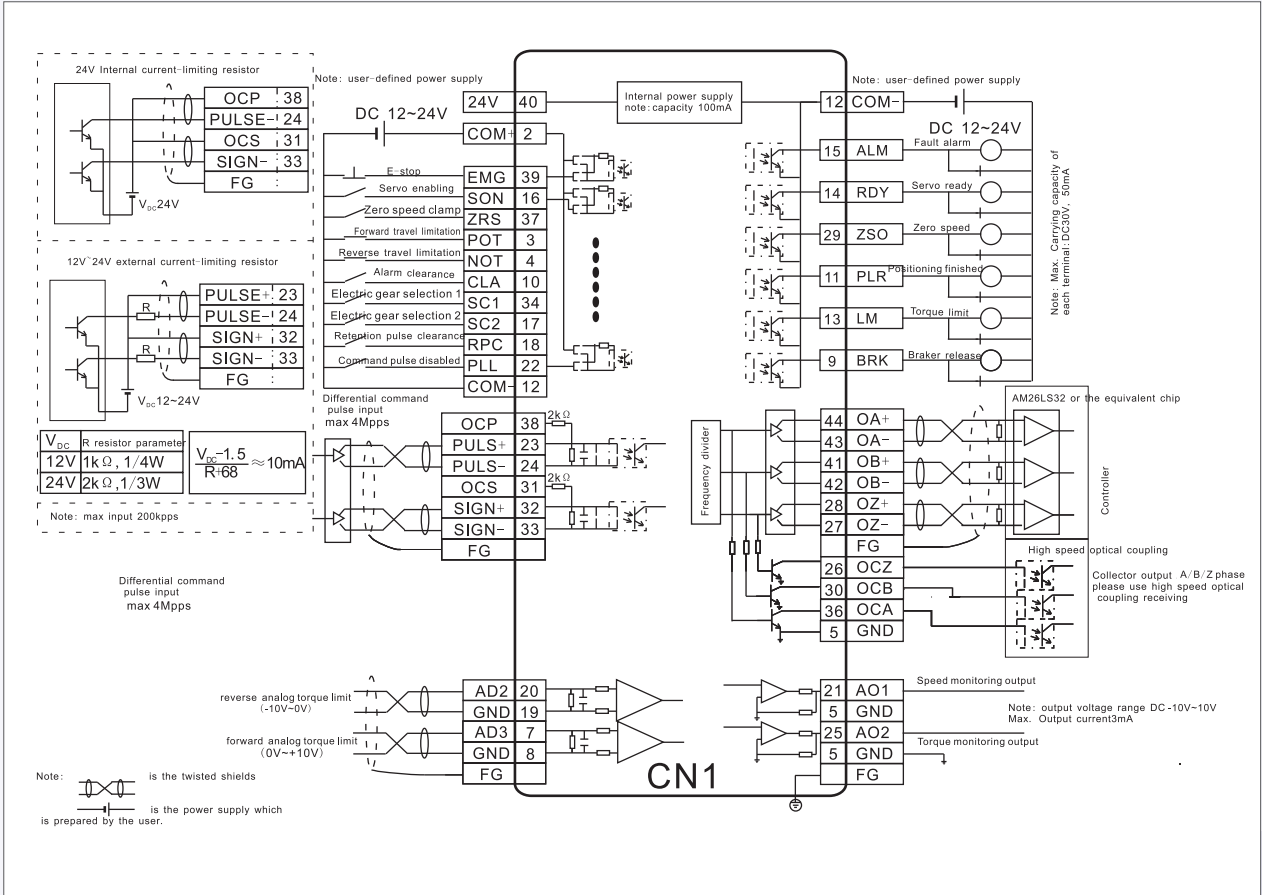
DA200 series servo drives (50W~15kW)				
Specifications		Description		
Power supply	220V system input voltage	1P/3P AC 220V(-15%)~240(+10%) 47Hz ~ 63Hz		
	400V system input voltage	3P AC 380V(-15%)~440(+10%) 47Hz ~ 63Hz		
Interface	Control signal	Input	10 inputs, 30 kinds of function can be configured by some parameters, Invalid, forward direction drive disabled, reverse direction drive disabled, servo enabling, alarm clearing, control mode switching, gain switching, retention pulse clear, command pulse prohibited, torque limit switch, internal speed command 1, internal speed command 2, internal speed command 3, zero speed clamp, speed command sign, torque command sign, internal position command 1, internal position command 2, internal position command 3, internal position command 4, external fault, inertia ratio switching, E-stop, HOME switch input, HOME trigger, molecule 1 of electronic gear ratio, molecule 2 of electronic gear ratio, bit control trigger, the vibration control switch input, fast stop, bit control stop.	
		Output	6 outputs (15 kinds of function can be configured by some parameters, invalid, servo ready output, servo operation output, fault output, reserved, external brake signals clear, position command or not, positioning finished, control mode switch state, speed matching, speed arrival, speed limiting, speed command or not, speed zero output, torque limiting, zeroing finished, torque arrival.	
	Analog value	Input	3 inputs (1 16bitA/D input, 2 12bitA/D inputs)..	
		Output	2 outputs (analog monitoring output)	
	Pulse signal	Input	2 inputs (open collector input/differential input)	
		Output	6 outputs (3 differential outputs, 3 open collector outputs)	
	Communication	USB	1:1 communication upper PC software (standard)	
		RS485	1:n communication (standard)	
		CANopen	1:n communication (standard)	
		Profibus-DP	1:n communication (standard)	
Safety terminals	EtherCAT	1:n communication (standard)		
	STO	Safe torque off (to the latest European safety standards) (optional)		
Control mode	1. Position control; 2. Speed control; 3. Torque control; 4. Position/Speed mode switching; 5. Speed/Torque mode switching; 6. Position/Torque mode switching; 7. Full closed loop control; 8. CANopen mode; 9. EtherCAT mode; 10. MotionNet mode			
Functions	Position control	Control input	1. Retention pulse clear; 2. Command pulse input disabled; 3. Command switch frequency doubling; 4. Vibration control switching	
		Control output	Output after positioning finished	
		Pulse input	Max. pulse input frequency	1 optical coupling: differential input 4Mpps, open collector input 200Kpps
			Pulse input mode	1. Positive/Negative direction; 2. A phase/B phase; 3. Command pulse/Command direction
			Electric gear	1/10000~1000 times
		Filter	1 Command smoothing filter; 2 FIR filter	
		Analog input	Torque command input	Can be independently arrange clockwise/ counterclockwise torque limit
		Vibration control	Control the forward and whole machine vibration of 5~200Hz	
Pulse output	1. Arbitrary frequency division settings under the encoder resolution 2. B phase reverse			

Technical specifications

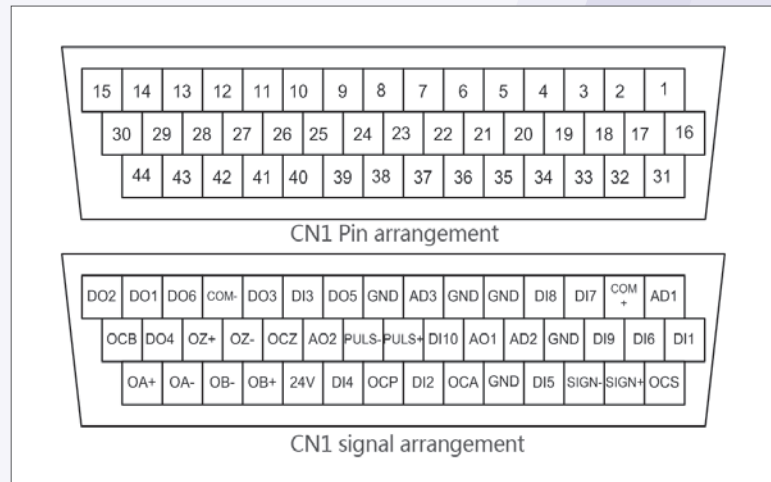
DA200 series servo drives (50W~15kW)				
Specifications		Description		
Functions	Speed control	Control input	1. Internal command speed 1; 2. Internal command speed 2; 3. Internal command speed 3; 4. Zero speed clamp	
		Control output	Speed arrival	
		Analog input	Speed command input	Speed command input of the analog voltage DC ± 10V setting
			Torque limit input	Can be independently arrange clockwise/ counterclockwise torque limit
		Pulse input	Speed command input after setting to the pulse frequency	
		Internal speed commands	8 step speed can be switched according to the external control input	
		ACC/DEC adjustment of the speed command	ACC/DEC time setting and S curve setting	
		Zero speed clamp	In the speed mode, it can set the operation mode as the speed mode and position mode	
		Speed command filter	A delay filter of analog input speed command	
	Speed command zero drift control	Zero drift control to the outside interference Precision 0.3mV		
	Torque control	Control input	Zero speed clamp input	
		Control output	Speed arrival	
		Analog input	Torque command input	Analog torque command input, gain and polarity setting to the analog voltage Precision 4.88mV
			Speed limit input	Analog speed limit
		Speed limit	Set the speed limit by parameters	
		Torque command filter	A delay filter of analog input torque command	
		Torque command Zero drift control	Zero drift control to the outside interference Precision 4.88mV	
	Internal position plan	Plan points	16-bit internal position planning, the positioning can be controlled through the communication	
		Route setting	1. Position; 2. Speed; 3. ACC time; 4. DEC time; 5. Stop timer; 6. Various state output; 7. Operational mode	
		Origin returning	1. LS signal; 2. Z phase signal; 3. LS signal+Z phase signal; 4. Torque limit signal	
	Protection	Hardware protection	Overvoltage, undervoltage, overcurrent, overspeed, overload, braking resistor overload, overheat, encoder fault and so on	
Software protection		Memory and initialization fault, the I/O distribution abnormalities and large position deviation		
Protection and fault record		1. 10 kinds of fault can be recorded 2. Can record the current key parameters when fault occurs		
Environment	Temperature	Temperature	0 ~ 45°C	
		Storage temperature	-20 ~ 80°C (no freezing)	
	Humidity	Operation/storage: ≤90%RH (no condensation)		
	IP degree	IP20		
	Altitude	Below 1000m		
	Vibration	≤5.88m/s ² , 10 ~ 60Hz (Not allowed to work at the resonance point)		

Standard wiring

The position /close-loop mode (available to the pulse input control)

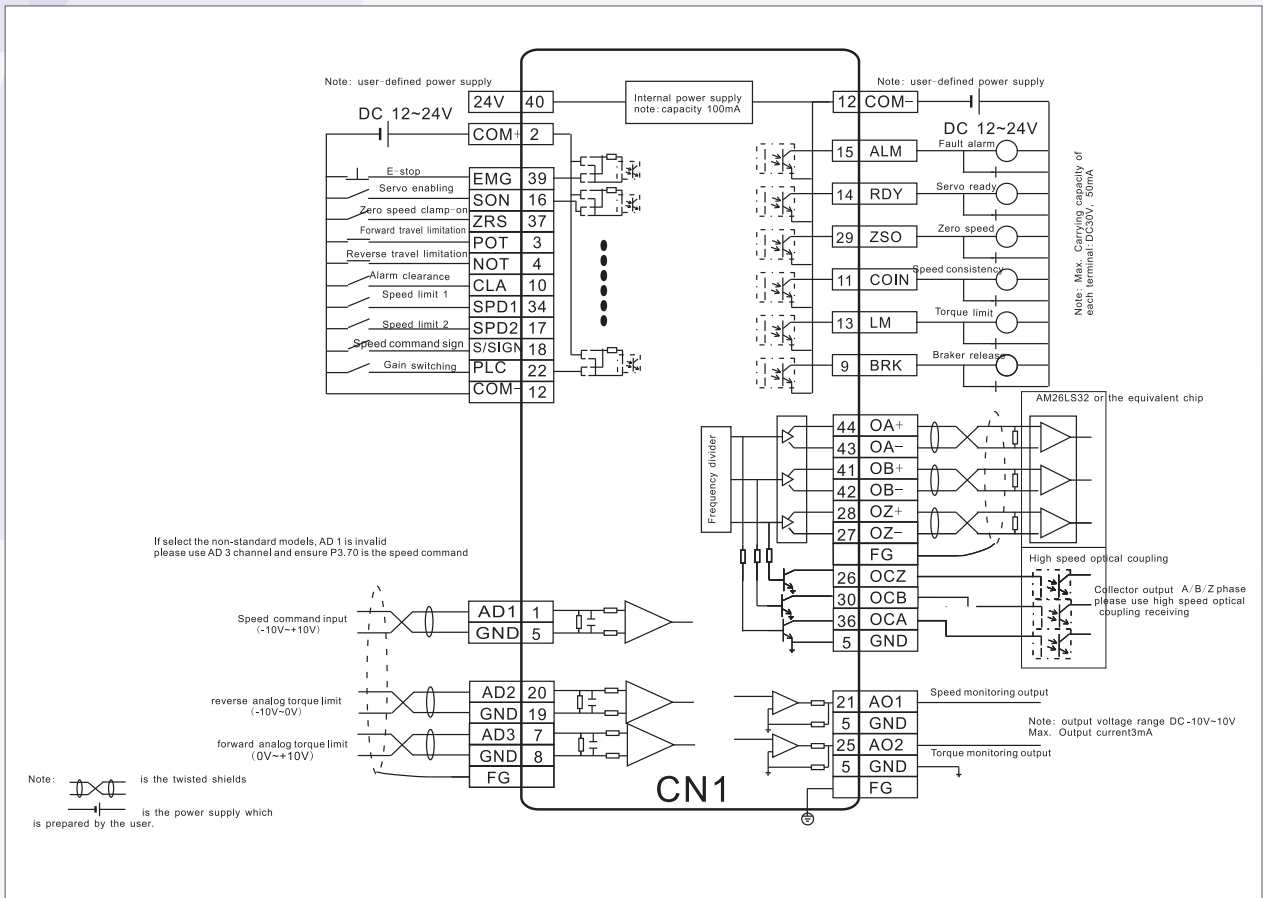


CN1 terminals

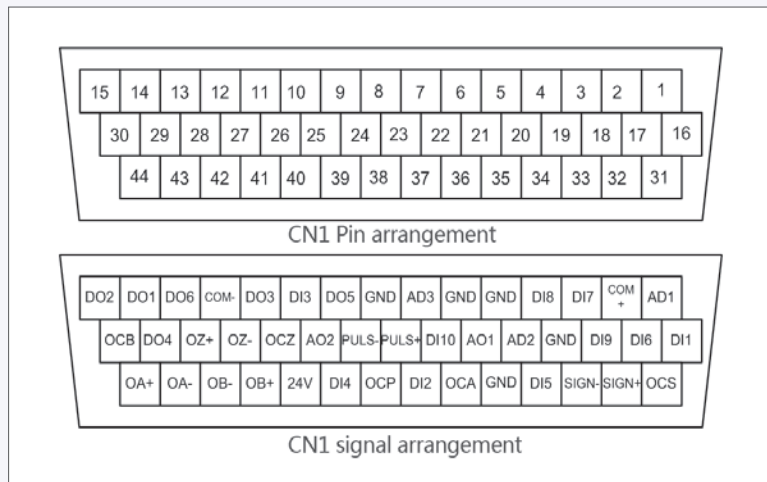


Standard wiring

The speed/torque mode (available to the analog input control)



CN1 terminals



/ Servo motor model

Naming of the motor

SV-ML 06-0R4 G-2-4 A 0

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①

符号	Product
SV	Servo system

②

Sign	Inertia degree
ML	general servo motor of small inertia
MM	general servo motor of medium inertia
MH	general servo motor of big inertia

③

Sign	Base
06	60
08	80
11	110
13	130
18	180

Sign	Rated speed
A	1000rpm
B	1500rpm
E	2000rpm
F	2500rpm
G	3000rpm

④

Sign	Rated power
R05	50W
0R1	100W
0R2	200W
0R4	400W
0R7	750W
1R0	1.0kW
1R5	1.5kW
2R0	2kW
3R0	3.0kW
4R4	4.4kW
5R5	5.5kW
7R5	7.5kW
011	11kW
015	15kW

⑤

Sign	Rated speed
A	1000rpm
B	1500rpm
E	2000rpm
F	2500rpm
G	3000rpm

⑥

Sign	Voltage degree
2	220VAC
4	400VAC

⑦

Sign	Encoder type
1	2500-wire standard incrementa
2	2500-wire multiplexed data line incremental
3	17-bit single circle absolute value
4	17-bit multiple circle absolute value
5	20-bit single circle absolute value
6	20-bit multiple circle absolute value
7	12-bit rotary transformer
8	16-bit rotary transformer

⑧

Sign	Axis connection
A	Solid with screw hole and key (standard)
B	Solid axis

⑨

Sign	Optional parts
0	With oil seal and no breaker
1	No breaker and oil seal
2	With oil seal and breaker
3	With breaker and no oil seal

Note: currently 20-bit encoder motor only covers 200W, 400W and 750W single-circle absolute motors and 12/16-bit rotating transformer motors are not in the market.

Servo motor parameters

Motor specification

Motor model	Rated power (kW)	Rated current(A)	Instantaneous maximum current(A)	Rated torque(Nm)	Instantaneous maximum torque(Nm)	Rated speed(rpm)	Highest speed(rpm)	Rotor inertia (Kg.cm ²)	Voltage
ML series small inertia									
SV-ML06-0R2G-2-□□□	0.2	1.5	4.5	0.64	1.92	3000	6000	0.21	220
SV-ML06-0R4G-2-□□□	0.4	2.8	8.4	1.27	3.8			0.32	220
SV-ML08-0R7G-2-□□□	0.75	4.5	13.5	2.4	7.2			1.26	220
SV-ML08-1R0F-2-□□□	1.0	4.4	13.2	4.0	12.0	2500	3000	2.97	220
MM series medium inertia									
SV-MM13-1R0E-2-□□□	1.0	4.8	14.4	4.77	14.3	2000	3000	6.3	220
SV-MM13-1R5E-2-□□□	1.5	7.6	22.8	7.16	21.5			9.36	220
SV-MM13-2R0E-2-□□□	2.0	9.5	28.5	9.55	28.6			12.16	220
SV-MM13-3R0E-2-□□□	3.0	13.6	40.8	14.3	42			18.0	220
SV-MM13-1R0F-2-□□□	1.0	5.0	15	5.0	15	2500	3000	8.5	220
SV-MM13-1R5F-2-□□□	1.5	7.5	21.5	7.7	22			12.6	220
SV-MM13-2R0F-2-□□□	2.0	10	30	10	30			15.3	220
SV-MM13-1R0E-4-□□□	1.0	2.8	8.4	4.77	14.3	2000	3000	6.3	380
SV-MM13-1R5E-4-□□□	1.5	4.5	13.5	7.16	21.5			9.36	380
SV-MM13-2R0E-4-□□□	2.0	5.5	16.5	9.55	28.6			12.16	380
SV-MM13-3R0E-4-□□□	3.0	7.8	23.4	14.3	42			18.0	380
MH series high inertia									
SV-MH06-0R2-2-□□□	0.2	1.5	4.5	0.64	1.92	3000	6000	0.42	220
SV-MH06-0R4-2-□□□	0.4	2.8	8.4	1.27	3.8			0.67	220
SV-MH08-0R7-2-□□□	0.75	4.5	13.5	2.4	7.2			2.5	220
SV-MH13-0R8B-2-□□□	0.85	5.5	15	5.41	16.2	1500	2000	14.6	220
SV-MH13-1R3B-2-□□□	1.3	8.2	24.6	8.34	25.2			20.5	220
SV-MH13-0R8B-4-□□□	0.85	3.2	9.6	5.41	16.2			14.6	380
SV-MH13-1R3B-4-□□□	1.3	4.8	14.4	8.34	25.2			20.5	380
MM series medium inertia									
SV-MM18-3R0B-4-□□□	3.0	7.5	18.75	19.0	47.0	1500	2000	38	380
SV-MM18-4R4B-4-□□□	4.4	10.0	25.0	27.0	67.0			61	380
SV-MM18-5R5B-4-□□□	5.5	12.0	30.0	35.0	70.0			86	380
Insulation class	Class F(155℃)								
Protection degree	IP65								
Environment	Temperature: -20℃~50℃ (no ice) ; Humidity: 90%RH以下 (no condensation)								

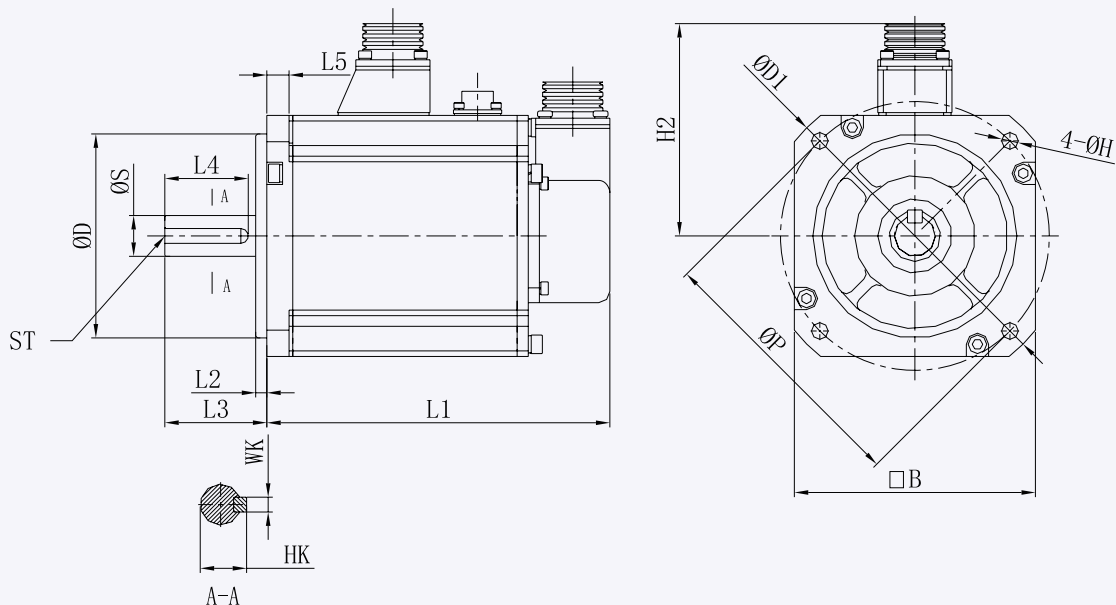
Installation dimension

130/180机座电机外形尺寸(单位:mm)

130series: 1.0kW、1.5kW、2.0kW、3kW (Vn = 2000/2500rpm, Vmax = 3000rpm)
 850W、1.3kW (Vn = 1500rpm, Vmax = 2000rpm)
 180series: 3.0W, 4.4kW, 5.5kW (Vn = 1500rpm, Vmax = 2000rpm)

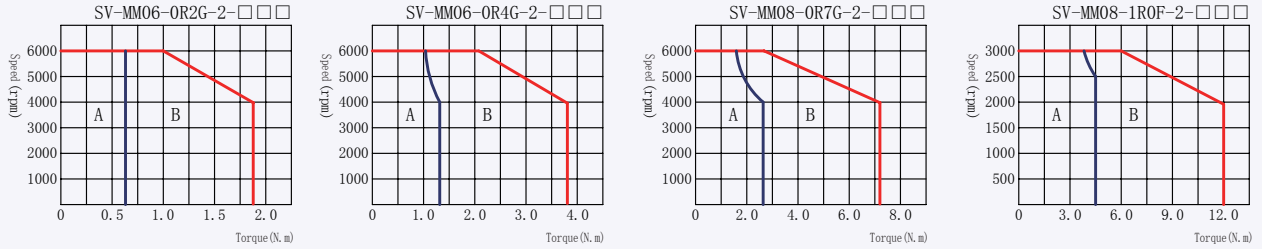
Note: The motor structure may change to the different design. Please contact with the company to confirm the dimension before ordering.

Motor model	Dimension table															Quality (kg)		
	D	L1	L2	L3	L4	L5	S	WK	HK	B	D1	P	H	H2	ST			
SV-MM13-1R0E-□-□A0	110h7	143															3.0	
SV-MM13-1R0E-□-□A2		185															3.3	
SV-MM13-1R5E-□-□A0		159															3.5	
SV-MM13-1R5E-□-□A2		201															3.0	
SV-MM13-2R0E-□-□A0		175															3.0	
SV-MM13-2R0E-□-□A2		217															3.5	
SV-MM13-3R0E-□-□A0		207															3.5	
SV-MM13-3R0E-□-□A2		249															4.1	
SV-MH13-0R8B-□-□A0		167	6	55	45	12	22h7	6h9	24.5	130	165	145	9	114.5	M6 depth 22		5.1	
SV-MH13-0R8B-□-□A2		209																
SV-MH13-1R3B-□-□A0		202																
SV-MH13-1R3B-□-□A2		244																
SV-MM13-1R0F-2-□A0		166																
SV-MM13-1R0F-2-□A2		223																
SV-MM13-1R5F-2-□A0		179																
SV-MM13-1R5F-2-□A2		236																
SV-MM13-2R0F-2-□A0		192																
SV-MM13-2R0F-2-□A2		249																
SV-MM18-3R0B-4-□A0		114.3h7	232															20.5
SV-MM18-3R0B-4-□A2			304															22.5
SV-MM18-4R4B-4-□A0	262		3.2	65	54	18	35h7	10h9	38	180.5	233	200	13.5	138.5			25.5	
SV-MM18-4R4B-4-□A2	334																27.5	
SV-MM18-5R5B-4-□A0	292																30.5	
SV-MM18-5R5B-4-□A2	364																32.5	

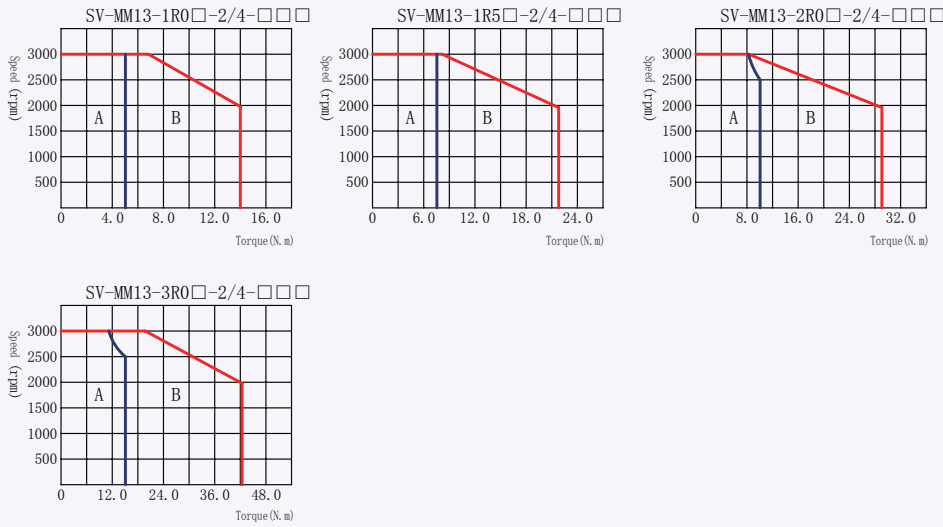


Motor torque-speed

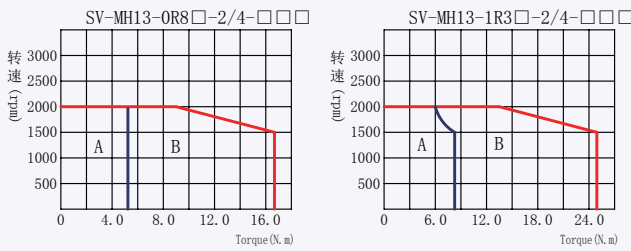
60/80 base (small inertia)



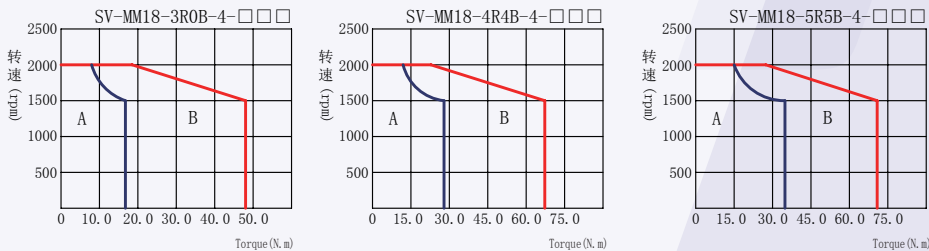
130 base (medium inertia)



130 base (high inertia)



180 base (medium inertia)



Cable model

Power cable

DA ML-075-03-A B F

① ② ③ ④ ⑤ ⑥ ⑦

Power cable accessories

DA ML-A B

① ② ⑤ ⑥

①

Sign	Series
DA	Manufacturer

②

Sign	Cable type
ML	Power cable

③

Sign	Coil diameter
075	0.75mm ²
100	1.0mm ²
150	1.5mm ²
250	2.5mm ²

④

Sign	Cable length
03	3m
05	5m
10	10m
15	15m

⑤

Sign	Pin for motors
A	4PIN plastic pin
B	4PIN general aviation pin YD28
C	4PIN metal pin

⑥

Sign	Pin for drives
B	European 7PIN 20A pin
W	No pin

⑦

Sign	Cable materials
Null	Standard cables
F	Flexible tray cables

Encoder cable	Cable appearance
DAML-□□□-□□-AB□	
DAML-□□□-□□-BB□	
DAML-□□□-□□-CB□	

/ Cable model

Cable core

DB EL-15-03-A F

① ② ③ ④ ⑤ ⑥

Encoder cable

DB EL-A A

① ② ⑦ ⑤

①

Sign	Series
DB	Manufacturer

②

Sign	Cable type
EL	Encoder cable

③

Sign	Cable core
06	6-core cable
09	9-core cable
15	15-core cable

④

Sign	Cable length
03	3m
05	5m
10	10m
15	15m

⑤

Sign	Pin for motors
A	15pin DB pin
B	15PIN general aviation pin YD28
C	9PIN metal pin
D	6PIN plastic pin

⑥

Sign	Cable materials
Null	Standard cables
D	with battery
F	Flexible tray cables
H	with battery flexible cables

⑦

Sign	Pin for drives
A	15pin DB pin

Encoder cable	Cable appearance
DBEL-□□-□□-□□-□□	
DBEL-□□-□□-□□-□□-□□	
DBEL-□□-□□-□□-□□-□□	
DBEL-□□-□□-□□-□□-□□	

Ordering instruction

Voltage	Power	Servo motor	Available drive	Power cable Encoder cable	Plug fittings
220V	200W	SV-ML06-0R2G-2-□□□	SV-DA200-0R2-2-□	DAML-075-□□-□B□ DBEL-□□-□□-□□	DAML-□B DBEL-A□
	400W	SV-ML06-0R4G-2-□□□	SV-DA200-0R4-2-□		
	750W	SV-ML08-0R7G-2-□□□	SV-DA200-0R7-2-□		
	1.0kW	SV-ML08-1R0F-2-□□□			
	850W	SV-MH13-0R8B-2-□□□	SV-DA200-1R0-2-□	DAML-150-□□-BB□ DBEL-□□-□□-□□	DAML-BB DBEL-AB
	1.0kW	SV-MM13-1R0E-2-□□□			
		SV-MM13-1R0F-2-□□□			
	1.3kW	SV-MH13-1R3B-2-□□□	SV-DA200-2R0-2-□		
	1.5kW	SV-MM13-1R5E-2-□□□	SV-DA200-1R5-2-□		
		SV-MM13-1R5F-2-□□□			
	2.0kW	SV-MM13-2R0E-2-□□□	SV-DA200-2R0-2-□		
		SV-MM13-2R0F-2-□□□			
3.0kW	SV-MM13-3R0B-2-□□□	SV-DA200-3R0-2-□	DBML-250-□□-BW□ DBEL-□□-□□-□□	DBML-BW DBEL-AB	
4.4 kW	SV-MM13-4R4B-2-□□□	SV-DA200-4R4-2-□			
400V	850W	SV-MH13-0R8B-4-□□□			SV-DA200-1R0-4-□
	1.0kW	SV-MM13-1R0E-4-□□□			
	1.3kW	SV-MH13-1R3B-4-□□□	SV-DA200-2R0-4-□		
	1.5kW	SV-MM13-1R5E-4-□□□	SV-DA200-1R5-4-□		
	2.0kW	SV-MM13-2R0E-4-□□□	SV-DA200-2R0-4-□		
	3.0kW	SV-MM18-3R0B-4-□□□	SV-DA200-3R0-4-□		
	4.4kW	SV-MM18-4R4B-4-□□□	SV-DA200-4R4-4-□	DBML-250-□□-BW□ DBEL-□□-□□-□□	DBML-BW DBEL-AB
	5.5kW	SV-MM18-5R5B-4-□□□	SV-DA200-5R5-4-□		

Ordering instruction: 1. There are two kinds of cable selection: to purchase the standard configured cable or to make the cable;
 2. Select the cable length to the actual need; the standard length is 3m, 5m, 10m and 15m
 3. Please contact with the local supplier for more motor information



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