

Safety Precautions AC Servo Motor System

P/N	0601050011
Version	V 1.0
Date	Augus 2020

Warranty

Warranty Period:

The warranty period of products is eighteen (18) months from the manufactured date. But for brake type products, the shaft accelerated or decelerated times should be not over the specified limit times.

Warranty Coverage:

During the warranty period, the repair will be free when using correctly follow the manual instructions. But even during the warranty period, the repair is be charged when products are damaged or failured under below cases:

- Failured or damaged due to mistake using, repairing or modifying self.
- 2. Failured or damaged due to falling, damaged during transportation after purchase.
- 3. Failured or damaged due to neglected the product specification to use.
- Failured or damaged due to external factors, including but not limit to, fire, earthquake, othering, storm, flood damage, salt damage, abnormal voltage, or any others natural disasters.
- lightning, storm, flood damage, salt damage, abnormal voltage, or any others natural disasters.

 5. Failured or damaged due to invasion of foreign materials such as water, oil, metal chips.

 The warranty is not applied to the accessory parts. We are not be liable for any indirect,

incidental, or consequential damage caused by products failure or out of working.

Safety Precautions

Thanks for purchase our AC servo motor system products. For use our product correctly, please read through this manual instruction before using it.

Please always keep this manual instruction accessible to the operators, please contact us for the latest version of this manual instruction.

There is some continue changes maybe is no further notice since that we will try to do our best effort to update the latest version of this manual instruction on time.

Please be make sure to pass this manual instruction to the operators who actually operate this product.

The below or possible specification	two prec	elow symbols indicated recautions which must lowed by users						
<u>危险</u> banger	Identified information of imminent hazards that are possible to cause death or serious injury.	0	Safety precaution- prohibit doing.					
<u>注意</u> CAREFUL	Identified information of imminent hazards that are possible to cause injury or damage.							
The below	The below symbols indicated the possible injury or damage							
\triangle	Fire Hazard							
<u> </u>	Electric shock hazard	Injury Hazard						
	Burns Hazard	Failure or hazard damage						
	<u> た</u> 危险 DANGER							
Symbols Precautions(Prohibit or Enforced Doing) Possible Hazard Syn								
	Install or Wiring							
	Never directly connect the motor to the commercial sup	ply.	<u>A</u>					
<u>U</u>	Do not keep the inflammable materials near the motor of	or amplifier.	<u> </u>					
	Must install the protective cover for the product. Kee safety distance follow manual instruction.	ep the	<u> </u>					
	Must install the product in a clean location with few dus from water or oil spray.	<u> </u>						
	Do not install the product on the nonflammable surface such as metal surface.							
		such as	<u> </u>					
•			<u>*</u>					
•	metal surface. Must be sure that any wiring works carried by the quali	fied notor or	<u>A</u>					

	Handing or Operating	
	Never touch inside of amplifier.	
	Not damaged the cables, also do not stressed, loaded, or	A A
	squeezed on it. Never touch the revolving part of motor during it's in motion.	
	Do not use the this product in moisture, oil spray, corrosive atmosphere, flammable atmosphere environment, keep far away	<u> </u>
	from flammable material.	
\mathcal{O}	Do not use this product in the location with vibrations or impact condition.	
	Do not use this product with cables deep into oil, water, any kind liquid.	<u> </u> ♠
	Do not carry the wiring or operating work with wet hand.	A A
	Do not touch the key groove part of motor shaft with unprotected hand. Do not touch the motor case or amplifier cooling fin which possible	
	be high temperature.	<u>A</u>
	Do not drive the motor rotating by external force.	
	Other precaution	A A A
	Be sure to safety verify after earthquake. Carry out the properly installing and setting up, make sure	/ <u>*</u> / <u>*</u> / <u>*</u>
U	that no injury or fire during earthquake or other disasters.	
	Must install the external circuit for immediately stop and cut off the power under emergency.	
	Maintenance or Inspections	
0	Never disassemble the motor or amplifier by self.	A A
Ō	There is dangerously high voltage part inside amplifier. Must discharge over 5 minutes after power cut off before wiring or checking work for this product.	A
	注意 CAREFUL	
Symbols	Precautions(Prohibit or Enforced Doing)	Possible Hazard Symbols
- Cynnbolo	Install or Wiring	T GOODS TIME AT GYTTESTS
	Do not directly touch the terminal by naked hand.	A A
\mathcal{O}	Do not cover the vent holes of amplifier. Do not allow the foreign	A A
	materials into amplifier. Must use the properly motor and amplifier combination which	
	with matched specification. Must make sure that the action is correct under the condition that motor is fixed and separated with machinery, then install the	
	motor on the machinery. Must make sure that motor is installed with properly fixed method,	<u> </u>
	direction following manual. Must properly choice the motor and modifier type by correct output power and weight.	
	Handing or Operating	
	Do not step on the product, Do not pile up the heavy something on the product.	A A A
	Never make the drastic or over spec change which possibility	
	Never make the drastic or over spec change which possibility caused the unstable motions. Do not approach your machinery after power restoration	À
0	Never make the drastic or over spec change which possibility caused the unstable motions.	À
0	Never make the drastic or over spec change which possibility caused the unstable motions. Do not approach your machinery after power restoration possibility there is unexpectedly restart. Your machinery must be designed to keep safety of person even it is unexpectedly	<u>A</u>
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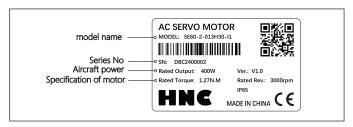
1. Product introduction

Servo Motor

Our company has produced magnetic encoder of 17bit resolution with excellent environmental resistance (no matter in dust,oil mist or vibration). We also produce the SE60-2 servo motor of high quality by means of its simple production structure and international brands of raw materials.

2. Product introduction and model selection

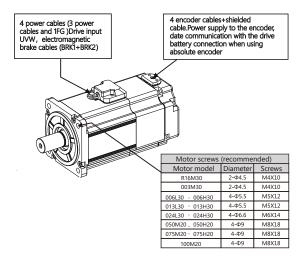
Introduction of nameplate and model name



Model identification



Parts name of servo motor and drive



Model name of servo drive and motor

Capacity	Servo motor model (SE60-2 □□□□□)		THE STATE OF THE S		Size	
50W	Middle inertia	R16M30	40	SV-E3P005A2		
100W	Middle inertia	003M30	40	SV-E3P010A2		
200W	Low inertia	006L30				
20000	High inertia	006H30	60	SV-E3P020A2	Frame A	
400W	Low inertia	013L30	60	CV F3D04043		
40000	High inertia	013H30		SV-E3P040A2		
750W	Low inertia	024L30	80	SV-E3P075A2		
/30W	High inertia	024H30	80	34 231 073712		
1kW	Middle inertia	050M20		SV-E3P100A2		
IKVV	High inertia	050H20		3V L3I 100A2		
1.5kW	Middle inertia	075M20	130	SV-E3P150A2	Frame B	
1.3844	High inertia	075H20		5V-E3P15UA2		
2kW	Middle inertia	100M20		SV-E3P200A2		

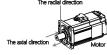
3. Product specification

Motor specification

	AC200V ~ 230V									
	Items		Unit	Specification						
	Voltage		V	DC280V						
	Motor mod SE == -2-***		_	R16M30 Middle inertia	003M30 Middle inertia	006L30 Low inertia	006H30 High inertia	013L30 Low inertia	013H30 High inertia	
ln	stall flange di	mensions	mm	□40	□40			50		
	Mass	No brake	kg	0.4	0.5	0.9	1.0	1.3	1.5	
	IVIASS	Brake	ĸy	0.6	0.8	1.4	1.5	1.8	2.0	
	Rated output		W	50	100	20	00	40	00	
	Rated torque		N⋅m	0.16	0.32	0.64 1.27				
	Max. Instantar	eous torque	N∙m	0.56	1.12	1.5	91	3.	82	
	Rated curren		Arms	0.6	0.9	1		2		
2	Max. Instantar	eous current	Arms	2.1	3.2	5		8	.1	
Ιĕ	Rated speed		r /min	30			30			
ΙĦ	Max. speed		r /min	60			50			
Common specifications	Torque const		N · m/Arms	0.25	0.36	0.4			198	
Ιğ	Induced voltage con		mV/(r/min)	8.8	12.5	14			.4	
⊈	Rated power		kW/s	5.6	13.6	23.9	9.3	58.7	23.5	
🛱	change rate	Brake	111175	4.7	12.3	19.5	8.6	51.9	22.4	
<u>B</u>	Mechanical		ms	2.60	1.69	1.12	2.87	0.67	1.66	
\ \overline{\sigma}	time constant			3.06	1.87	1.37	3.12	0.75	1.75	
	Electrical time		ms	0.64	0.76	1.5			47	
	Motor rotor	No brake	×10kg·m²	0.045	0.074	0.17	0.43	0.28	0.70	
	Inertia	Brake		0.053 0.082 0.21 0.47 0.31 0.74						
	Permissible load	Radial load Axial load	N	Refer to [Output shaft permissible load]						
	Encoder	Axiai ioau		N Refer to [Catapat state permission road] / bit serial communication (EIA422)						
-	Usage		Holding brake (Note: not for braking)							
1 🖫	Power supply		SELV power, reinforced insulation should be performed from the dangerous voltage.							
8	Rated voltage		V	DC24V±10%						
<u>۾</u>	Rated current		A	0.2	25	DC241	0.	2		
ď	Static friction to	ami ie	N·m	0.16 or more			1.27 or			
Encoder specification	Absorption tim		ms	35 or l			50 or l			
<u>2</u>	Release time		ms	20 or l			15 or k			
9	Release voltag	e	V	20011		DC1V or more				
	Rated time		Continuous							
	Ambient temper	ature for use	0°C ~ 40°C	(Without co	ondensation)					
	Ambient humidi		20 ~ 85%F	RH (Without	condensation	n)				
_	Ambient tempera	ture for storage			condensatio		n temperatur	e: 80°C for 7	2 hours	
Ambient conditions	Ambient humidi	ty for storage	20 ~ 85%F	RH (Without	condensation	n)				
Bi	Atmosphere for	use	Inside (no c	lirect sunlight), no corrosiv	e gas, no infl	lammable ga	s, no oil, no o	dust	
₹	Insulation class		Class B							
8	Insulation resis			$-5M\Omega$ or m	ore					
≘	Dielectric stren	gth	AC1500V							
<u>§</u>	Altitude			ess above sea	level					
۱ "	Vibration class		V15 (JEC2							
	Vibration resist		49m/s² (!							
	Impact resistar		98m/s² (:	10G)						
	Protective class	5	IP65							

Items		Protective class IP65									
No brake No mode No											
Voltage					AC200	V ~ 230)V				
Motor model (SE □□ 2 - ******** 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000		Items									
CSE CID-2-****** Low inertia High inertia Middle inertia Middle inertia High inertia Middle inertia Middle inertia High inertia Middle inerti		Voltage		V							
Install flange dimensions	١.	Motor mod	l _								
Mass No brake kg 2.5 2.7 5.6 7.6 7.0 9.0 8.4 10.4 9.8	(S	E □□-2-****	**-)				Middle inertia	High inertia		High inertia	Middle inertia
Rated output N-m 2.39 4.77 7.16 9.55	Ins	stall flange dir		mm							
Rated output		Mass		ka							
Rated torque		le									
Max. instantaneous torque N·m 7.1 14.3 21.5 28.6											
Rated current Arms 4.3 5.6 9.9 12.2											
Max. instantaneous current Arms 12.9 16.8 30 36.6											
Rated speed											
Motor rotor No brake No bra	ਲ਼		ieous current				16	1.8		U	30.0
Motor rotor No brake No bra	≝						-				
Motor rotor No brake No bra	١ĕ		ant				_ n	20		Ω1	0.85
Motor rotor No brake No bra	8										
Motor rotor No brake No bra	<u>8</u> .										
Motor rotor No brake No bra	∣ਨ੍ਹੋੀ			kW/s							
Motor rotor No brake No bra	₩										
Electrical time constant Mob brake Motor rotor No brake Bra	8			ms							
Motor rotor No brake Parke P		Electrical time		ms							
Permissible Radial load N Refer to [Output shaft permissible load] Refer to [Output shaft permissible load] Refer to [Output shaft permissible load]				×10kg·m²	0.89	1.62			6.67	37.12	
Release time			Brake		1.08	1.81	6.24	26.4	8.35		10.38
National Color Na		Permissible	Radial load	N	Dofouto	(Outros de	chaft parmissible load!				
Usage		load	Axial load	N - · · ·							
Rated voltage V		Encoder					2)				
Rated time Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient thurnidity for use Anhient thurnidity for storage An	罗			Holding brake							
Rated time Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient thurnidity for use Anhient thurnidity for storage An	8			_	SELV power	; reinforced i				the dangero	us voltage.
Rated time Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient thurnidity for use Anhient thurnidity for storage An	单						D	C24V±10			
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Rated time Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient temperature for use Anhient thurnidity for use Anhient thurnidity for storage An	<u> </u>		ne .								
Rated time Continuous Antient temperature for use 0°C ~ 40°C (Without condensation) Ambient humidity for use 20 ~ 85°K,RH (Without condensation) Ambient temperature for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Without condensation) Ambient humidity for storage 20 ~ 85°K,RH (Wit	호					:0	<u> </u>	DC11/or			
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Ambient humidity for use Ambient humidity for storage Ambient humidity for storage 20 ~ 859%RH (Without condensation) Maximum temperature: 80°C for 72 hours Ambient humidity for storage Ambient humidity for storage 20 ~ 859%RH (Without condensation) Amosphere for use Insulation class Insulation class Insulation resistance DC1000V-5MΩ or more Delectric strength AC1500V 1 min Altitude 1000m or less above sea level Vibration class V15 (JEC2121) Vibration resistance 49m/s² (5G) Impact resistance 98m/s² (10G)			rature for use								
Ambient temperature for storage Ambient humidity for storage Ambient temperature: 80°C for 72 hours Ambient humidity for storage Ambient humidity for storage Ambient temperature: 80°C for 72 hours Ambient temperature: 80°C for 72 hours Ambient humidity for storage Ambient											
Ambient humidity for storage 20 ~ 85%RH (Without condensation) Amosphere for use inside (no direct sunlight), no corrosive gas, no inflammable gas, no oil, no dust insulation dass Class B insulation resistance DC1000V-5MΩ or more Delectric strength AC1500V 1 min Altitude 1000m or less above sea level Vibration class V15 (JEC2121) Vibration resistance 49m/s² (30G) impact resistance 98m/s² (10G)	١.										
Wibration class	≩										
Wibration class	흥							inflamma	ble gas, no	oil, no dus	t
Wibration class	₹						J,		<u></u>		
Wibration class	8	Insulation resis	tance	DC1000V	-5MΩ or I	more					
Wibration class	<u>⊊</u>		igth .	AC1500V	1 min						
Wibration class	ΙĞ										
Impact resistance 98m/s² (10G)	ľ										
Protective class IP65					LOG)						
		Protective clas	s	IP65							

Output shaft permissible load





Permissible load	Unit	50W	100W	200W	400W	750W	1kW	1.5kW	2kW
The radial direction	N	68	68	245	245	392	490	490	490
The axial	N	58	58	98	98	147	196	196	196