KNC-SRV-FD322S Series Servo Driver



- 88-126VAC Single Phase Input
- 200-750 Watt Power Range
- · Position, Speed, and Torque Control
- Communication Ports: RS232 and RS485
- Communication Protocol: MODBUS
- 2500PPR Incremental Encoder
- Communication Software
 - ° Configure Parameters
 - ° I/O Signal Monitoring
 - ° Speed and Position Curves
 - ° Gain Adjustments
- Programmable Inputs and Outputs
 - ° 7 Inputs
 - ^o 4 Outputs
- 2 Analog Inputs
- CE Certified

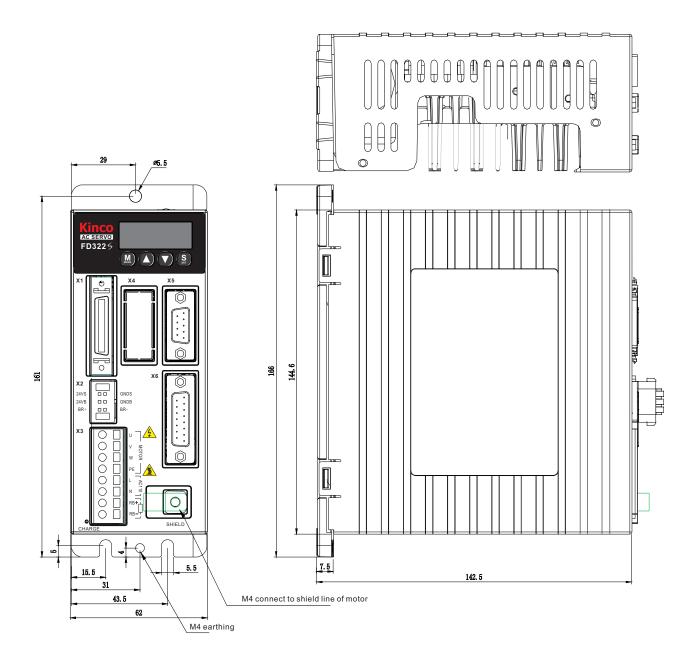


The KNC-SRV-FD322S Series Servo Drive is a great fit for applications requiring position, speed and/or torque control methods. The uniqueness of this servo drive is the flexibility of using a single servo drive that can accomodate motors with power ratings ranging from 200-750W. Also it is designed to switch dynamically among different control methods for more flexible operation. The KNC-SRV-FD322S Series Servo Drive operates with single-phase 88-126VAC input. These drives come standard with an RS232 and RS485 which can be operated using MODBUS Protocol, or can be operated using our Free, Easy-to Use Sofware. Please consult our Application Engineers for more information.

Category	Servo Driver	Servo Motor	Description	Power/Brake Cable	Encoder Cable	Rated Speed/ Rated Torque/ Rated Current
		SMH60S-0020-30AAK-3AKH	Cable Connector	MOT-005-05-KL		000000000000000000000000000000000000000
Small Inertia	FD322S-LA-000	SMH60S-0020-30ABK-3AKH	Cable Connector and Brake	MOT-005-LL-KL/ BRA-05-KL	ENCCA-05-KH	3000rpm/0.64Nm/ 2.7A
120V	FD3225-LA-000	SMH60S-0040-30AAK-3AKH	Cable Connector	MOT-005-05-KL	•	3000rpm/1.27Nm/
		SMH60S-0040-30ABK-3AKH	Cable Connector and Brake	MOT-005-05-KL/ BRA-05-KL		4A

L011536





Note: All Dimensions in (mm)

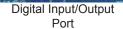




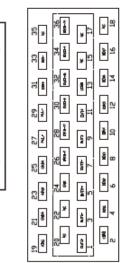
Mo	odel Parameter	FD322S Series			
	Main Supply Voltage	88-126VAC 47~63Hz			
Power	Control Circuit Voltage	18-30VDC 1A			
<u> </u>	Rated Current (RMS)	5A			
Current	Peak Current (PEAK)	15A			
Feedback Signal		2500PPR (Incremental Encoder with 5V Supply)			
Е	Brake Chopper	Use an External Braking Resistor According to Application, Mainly in Occasion of Quick Stop.			
Brake	Chopper Threshold	DC190V ± 5V			
Over-Volta	age Alarming Threshold	DC200V ± 5V			
Under-Volt	age Alarming Threshold	DC100V ± 5V			
C	Cooling Method	Natural Air Cooling			
	Weight	1.2 Kg			
	Input Specification	7 Digital Inputs, with COM1 Terminal for PNP (High Level Valid 12.5-30V) or NPN (Low Level Valid) Connection.			
Digital Input	Input Function	Define Freely According to Requirement, Supporting Following Functions: Driver Enable, Driver Fault Reset, Driver Mode Control, Proportional Control, Positive Limit, Negative Limit, Homing Signal, Reverse Command, Internal Speed Section Control, Internal Positive Section Control, Quick Stop, Start Homing, Active Command, Switch Electronic Gear Ratio, Switch Gain.			
	Output Specification	5 Digital outputs, OUT1~OUT4 Current is 100mA, BR+/BR- (Brake Control Output) Current is 800mA, Can Drive Brake Device Directly.			
	Output Function	Define Freely According to Requirement, Supporting Following Functions: Driver Ready, Driver Fault, Positon Reached, Motor at Zero Speed, Motor Brake, Motor Speed Reached, Z Signal, Maximum Speed Obtained in Torque Mode, Motor Brake, Position Limiting, Reference Found, Multi-Position Reached			
Digital Output	Analog Input	2 Analog input, can be used to control speed and Torque, the input range is -10V~10V			
	Encoder Signal Output	Output Encoder Signal is Optional, Used in Multiple Axis Synchronou Control, Supports 2MHz at Most			
	RS232	The Max. Baudrate is 115.2KHz, Use Kinco Servo Software to Communicate with PC, or Via Free Protocol to Communicate with Controller.			
	Protection Functions	Over-Voltage Protection, Under-Voltage Protection, Motor Over-Heat Protection (I ² T), Short-Circuit Protection, Drive Over-Heat Protection, Etc.			
	Operating Temperature	0 ~ 40°C			
	Storage Temperature	-10°C~70°C			
	Humidity (Non-Condensing)	5~95%			
0 "	Protection Class	IP20			
Operation Environment	Installation Environment	Installed in a Dust-Free, Dry and Lockable Environment (Such as in a Electrical Cabinet)			
	Installation Mode	Vertical Installation			
	Altitude	No Power Limitation Below 1000m			
	Atmospheric Pressure	86kpa-106kpa			



KNC-SRV-FD322S Series Servo Driver



PIN No.	Signal	PIN No.	Signal	PIN No.	Signal	PIN No.	Signal	
2	COM1	1	OUT1+	20	NC	19	AIN1	
4	DIN1	3	OUT1-	22	NC	21	GNDA	
6	DIN2	5	OUT2+	24	GND	23	AIN2	
8	DIN3	7	OUT2-	26	ENCO-Z	25	GNDA	
10	DIN4	9	OUT3	28	ENCO-/Z	27	PUL+	
12	DIN5	11	OUT4	30	ENCO-B	29	PUL-	
14	DIN6	13	COM0	32	ENCO-/B	31	DIR+	
16	DIN7	15	NC	34	ENCO-A	33	DIR-	
18	NC	17	NC	36	ENCO-/A	35	NC	



X4

X1

Female: RS485

PIN Number	Signal		
1	NC		
2	RX+		
3	TX+		
4	NC		
5	GND		
6	+5V		
7	RX-		
8	TX-		
9	NC		



PIN Number	Signal
1	NC
2	TX
3	RX
4	NC
5	GND
6	NC
7	NC
8	NC
q	NC.

9 Pin DB

X5



Female: Encoder Input

PIN No.	Incremental Encoder Signal	PIN No.	Incremental Encoder Signal	PIN No.	Communication Encoder Signal	PIN No.	Communication Encoder Signal
1	+5V	9	GND	1	+5V	9	GND
2	Α	10	/A	2	NC	10	NC
3	В	11	/B	3	NC	11	NC
4	Z	12	/Z	4	NC	12	NC
5	U	13	/U	5	NC	13	NC
6	V	14	N	6	NC	14	NC
7	W	15	/W	7	SD	15	/SD
8	PTC_IN			8	NC		

Motor Encoder Input Port

15 Pin DB Female