## FD332S-LA-000 Servo Driver

**Kinco** 



- 88-126VAC Single Phase Input
- 750-1000 Watt Power Range
- Position, Speed, and Torque Control
- Communication Ports: RS232 and RS485
- Communication Protocol: MODBUS
- 2500PPR Incremental Encoder
- Communication Software
  - <sup>o</sup> Configure Parameters
  - ° I/O Signal Monitoring
  - ° Speed and Position Curves
  - ° Gain Adjustments
- Programmable Inputs and Outputs
  - ° 7 Inputs
  - ° 4 Outputs
- 2 Analog Inputs
- CE Certified

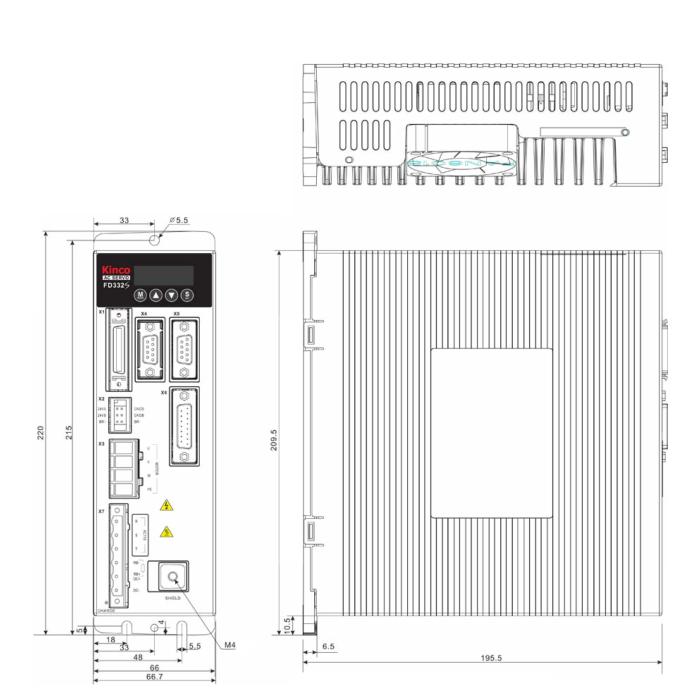
The FD332S-LA-000 Servo Drive is a great fit for applications requiring position, speed and/ or torque control methods. The uniqueness of this servo drive is the flexibility of using a single servo drive that can accomodate motors with power ratings ranging from 750-1000W. Also it is designed to switch dynamically among different control methods for more flexible operation. The FD332S-LA-000 Servo Drive can operate position control mode either with pulse and direction inputs, or 8 internal position points, analog speed control or 8 internal speed points, and analog or internal torque mode. The FD332S-LA-000 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 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
	FD332S-LA-000	SMH80S-0075-30AAK-3AKH	Cable Connector	MOT-005-05-KL		3000rpm/ 2.39Nm/7.5A
Small Inertia 120V		SMH80S-0075-30ABK-3AKH	Cable Connector & Brake	MOT-005-05-KL/ BRA-05-KL	ENCCA-05-KH	
		SMH80S-0100-30AAK-3AKH	Cable Connector	MOT-005-05-KL		3000rpm/ 3.18Nm/ 10A
		SMH80S-0100-30ABK-3AKH	Cable Connector & Brake	MOT-005-05-KL/ BRA-05-KL		

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## FD332S-LA-000 Servo Driver

DIMENSIONS



Note: All Dimensions in (mm)



# FD332S-LA-000 Servo Driver

Model Parameter		FD332S-LA-000				
Power Main Supply Voltage		88-126VAC 47~63Hz				
Power	Control Circuit Voltage	18-30VDC 1A				
Current	Rated Current (RMS)	11A				
Current	Peak Current (PEAK)	27.5A				
Feedback Signal		2500PPR (Incremental Encoder with 5V Supply) 16 Bit multi-turn absolute encoder, 20 Bit single-turn absolute encoder.				
E	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	2.4 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.				
	Analog Input	2 Analog input, can be used to control speed and Torque, the input range is -10V~10V				
Digital Output	Encoder Signal Output	Output Encoder Signal is Optional, Can be Used in Multiple Axis Synchronization,the Max. Output Frequency is 2MHz. Motor A/B/Z signal, Plus Signal, (PLS+DIR, CW/CCW, A+B). Motors Integrated with 20 Bit Single-Turn encoder do not support this function.				
	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 <sup>2</sup> T), Short-Circuit Protection, Drive Over-Heat Protection, Etc.				
	RS485	The Max. Baudrate is 115.2KHz, use Modbus RTU Protocol to Communicat with Controller.				
	Operating Temperature	0 ~ 40°C				
	Storage Temperature	-10°C~70°C				
	Humidity (Non-Condensing)	5~95%				
	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				

TECHNICAL SPECIFICATIONS



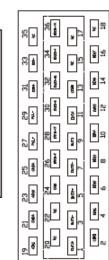
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## FD332S-LA-000 Servo Driver

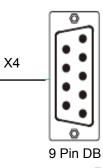
PIN No.	Signal	PIN No.	Signal	PIN No.	Signal	PIN No.	Signal
2	COM1	1	OUT1+	20	NC	19	AIN1
4	DIN1	3	OUT1-	22	NC	21	GNDA
6	DIN2	5	OUT2+	24	GND	23	AIN2
8	DIN3	7	OUT2-	26	ENCO-Z	25	GNDA
10	DIN4	9	OUT3	28	ENCO-/Z	27	PUL+
12	DIN5	11	OUT4	30	ENCO-B	29	PUL-
14	DIN6	13	COM0	32	ENCO-/B	31	DIR+
16	DIN7	15	NC	34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



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Female: RS485

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



Female: RS232

PIN Number	Signal	
1	NC	
2	ТХ	Ň
3	RX	X5
4	NC	° ŏ
5	GND	l s s
6	NC	<u> </u>
7	NC	
8	NC	
9	NC	9 Pin DB Female

### Female: Encoder Input

PIN No.	Incremental Encoder Signal	PIN No.	Incremental Encoder Signal	PIN No.	Communication Encoder Signal	PIN No.	Communication Encoder Signal	X6
1	+5V	9	GND	1	+5V	9	GND	
2	А	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	IV	6	NC	14	NC	15 Pin D
7	W	15	/W	7	SD	15	/SD	Motor Encoder Input
8	PTC_IN			8	NC			Port

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