FD122 Series Servo Driver

- Input Voltage Range From DC24VDC to 70VDC
- Rated Current is (RMS) 6A
- 50-200 Watt Power Range
- Position, Speed. and Torque Control
- RS232 and CAN BUS Port
- Natural Air Cooling
- MODBUS and CANopen Standard
- Requires 2500PPR Encoder Input
- Communication Software
 - ° Configure Parameters
 - ° I/O Signal Monitoring
 - ° Speed and Position Curves
 - ° Gain Adjustments
- Programmable Inputs and Outputs
 - ° 4 Inputs
 - ° 2 Outputs
- CE Certified

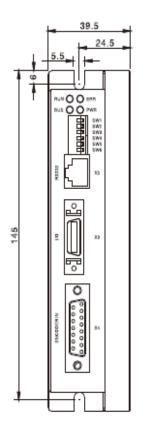


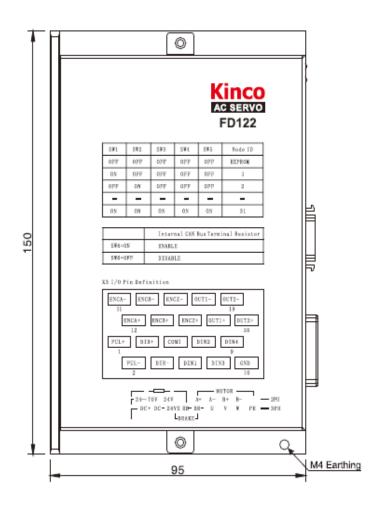
The FD122 Series Servo Drive is a great fit for applications requiring position, speed and/or torque control methods. The uniqueness of this servo drive is the flexibility of using a single servo drive that can accomodate motors with power ratings ranging from 50-200W. Also, it is designed to switch dynamically among different control methods for more flexible operation. The FD122 Series Servo Driveoperates with 24-70 VDC input. These drives comestandard with an RS232 which can be operated using MODBUS Protocol, a CANBUS port to be operated using CANopen Protocol, or can be operated using our Free, Easy-to Use Sofware. Please consult our Application Engineers for more information.

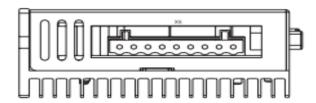
Catagory	Servo Driver	Servo Motor	Description	Power/Brake Cable	Encoder Cable	Rateed Speed/ Rated Torque/Rated Current
Small Inertia DC60V	FD122-AA-000 FD122-CA-000	SMH40S-0005-30AAK-4DKH	Cable Connector	MOT-005-LL-KL-D	ENCCA-LL-KH	3000rpm/0.16Nm/ 1.2A
		SMH40S-0005-30ABK-4DKH	Cable Connector and Brake	MOT-005-LL-KL- D/BRA-LL-KL		
		SMH40S-0010-30AAK-4DKH	Cable Connector	MOT-005-LL-KL-D		3000rpm/0.32Nm/
		SMH40S-0010-30ABK-4DKH	Cable Connector and Brake	MOT-005-LL-KL- D/BRA-LL-KL		2.5A
		SME-60S-0020-30AAK-3DKH	Cable Connector	MOT-005-LL-KL-D		3000rpm/0.64Nm/ 4.6A
		57S-0010-10AAK-FDFH	Cable Connector	MOT-005-LL-KL-D		1000rpm/1Nm/6.5A
		57S-0015-08AAK-FDFH	Cable Connector	MOT-005-LL-KL-D		800rpm/1.5Nm/5.8A
		85S-0020-05AAK-FLFN	HFO Standard Connector	MOT-005-LL-KC0	ENCCF-LL-FC0	500rpm/2Nm/6A

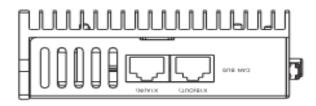
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Note: All Dimensions in (mm)



FD122 Series Servo Driver

Mo	odel Parameter	FD122 Series		
_	Main Supply Voltage	24VDC-70VDC		
Power	Control Circuit Voltage	DC24V 1A (Optional)		
0	Rated Current (RMS)	6A		
Current	Peak Current (PEAK)	15A		
Fe	eedback Signal	2500PPR (Incremental Encoder with 5V Supply)		
Е	Brake Chopper	Use an External Braking Resistor According to Application, Mainly in High Speed Start and Stop Application.		
Brake	Chopper Threshold	DC79V ± 2V		
Over-Volta	age Alarming Threshold	DC86V ± 2V		
Under-Volt	age Alarming Threshold	18V ± 2V		
C	Cooling Method	Natural Air Cooling		
	Weight	0.565 Kg		
	Input Specification	4 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	3 Digital Outputs, OUT1-OUT2 Current is 100mA, BR+/BR- (Brake Control Output) Current is 500mA, Can Drive Brake Device Directly)		
Digital Output	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, N Signal, Maximum Speed Obtained in Torque Mode, Motor Brake, Position Limiting, Reference Found, Multi-Position Reached		
	Encoder Signal Output	Output the Encoder Signal of Motor, Used in Multiple Axis Synchronous Control, Supports 2M at Most.		
	RS232	RS232, Connections with PC (2-2, 3-3, 5-5) or Controller		
	Protection Functions	Over-Voltage Protection, Under-Voltage Protection, Motor Over-Heat Protection (I²T), Short-Circuit Protection, Drive Over-Heat Protection, Etc.		
	CAN BUS	Supports 1M Baud Rate, Communicates with Controller via CANopen Protocol		
	Operating Temperature	0 ~ 40°C		
	Storage Temperature	-10° C~70°C		
	Humidity (Non-Condensing)	Below 90%RH		
Operation	Protection Class	IP20		
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		

INTERFACE DESCRIPTION

FD122 Series Servo Driver



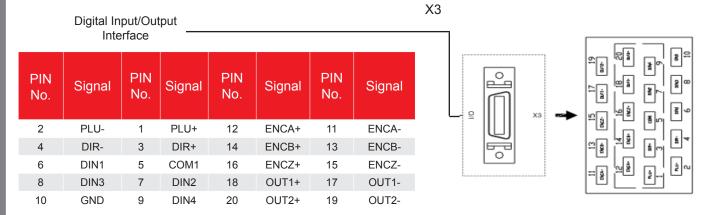
X1 X1B(OUT) X1A(IN) **CAN Bus** Communication CAN BUS Interface CAN

PIN Number	Signal
1	CAN H
2	CAN L
3	GND
Others	NC

RS232

PIN Number	Signal
3	TXD
4	GND
6	RXD
Others	NC

RS232 Communication Interface, Can be Used for X2 Debugging and Import/ Export Project Data Via PC



ENCODER IN

PIN No.	Signal	PIN No.	Signal
1	+5V	9	GND
2	Α	10	/A
3	В	11	/B
4	Z	12	/Z
5	U	13	/U
6	V	14	\wedge
7	W	15	/W
8	PTC_IN		

Motor Encoder Input Interface 00000000 0000000 X4 ENCODERIN



Motor/Power Supply

PIN Name	PIN Function
DC+	Positive terminal of DC power supply and braking resistor
DC-	Negative terminal of DC power supply and 24VDC power supply
24VS	Positive terminal of 24VDC power supply and braking
RB-	Negative terminal of braking resistor
BR-	Negative terminal of braking, A- phase of motor output
U	U phase of motor output, A- phase of motor output
V	V phase of motor output, B+ phase of motor output
W	W phase of motor output, B- phase of motor output
PE	Motor earthing

