- Input Voltage Range From DC24VDC to 70VDC
- Rated Current is (RMS) 10A
- 50-200 Watt Power Range
- Position, Speed, and Torque Control
- RS232 and CAN BUS
- Natural Air Cooling
- MODBUS and CANopen Standard
- Requires 2500PPR Encoder Input
- Communication Software
 - ° Configure Parameters
 - ° I/O Signal Monitoring
 - o Speed and Position Curves
 - ° Gain Adjustments
- Programmable Inputs and Outputs
 - ° 4 Inputs
 - ° 2 Outputs
- CE Certified

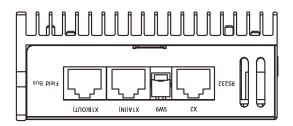


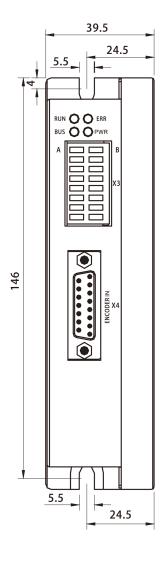


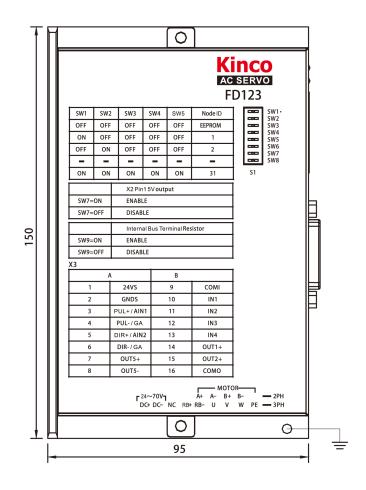
The FD123-CA-000 Series Servo Drive is a great fit for applications requiring position, speed, and/or torque control methods. The uniqueness of this Servo Drive package is the flexibility of using a single Servo Drive that can accommodate motors with power ratings ranging from 50-200W. Also, it is designed to switch dynamically among different control methods for more flexible operation. The =FD123-CA-000 Servo Drive can operate position control mode either with pulse and direction inputs, 8 internal position points, or The FD123-CA-000 Servo Drive operates with a 24-70VDC 8 internal speed points. input. These drives come standard with an RS232 which can be operated using MODBUS Protocol, a CAN BUS port to be operated using CANopen Protocol, or can be operated using our Free, Easy-to-Use Software. Please consult our Application Engineers for more information.

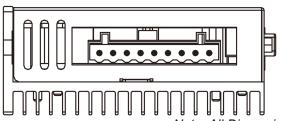
SPECIFICATIONS	Category	Servo Driver	Servo Motor	Description	Power/Brake Cable	Encoder Cable	Rated Power / Rated Speed / Rated Torque
	Small Inertia DC48V	FD123-CA-000 FD123-EA-000 FD123-LA-000 FD123-CC-000	SMH40S-0005-30AAK-4DKH	2500PPR Incremental Encoder	MOT-005-05-KL-D	ENCCA-05-KH	50W / 3000 RPM / 22.6 oz-in
			SMH40S-0010-30AAK-4DKH	2500PPR Incremental Encoder	MOT-005-05-KL-D		100W / 3000 RPM / 45.3 oz-in
			SMC60S-0020-30AAK-3DKH	2500PPR Incremental Encoder	MOT-005-05-KL-D		200W / 3000 RPM / 90.6 oz-in
			SMC60S-0020-30ABK-3DKH	2500PPR Incremental Encoder, with Brake	MOT-005-05-KL-D BRA-05-KL		200W / 3000 RPM / 90.6 oz-in
			SMC60S-0040-30AAK-3DKH	2500PPR Incremental Encoder	MOT-005-05-KL-D		400W / 3000 RPM / 179.8 oz-in
			SMC60S-0040-30ABK-3DKH	2500PPR Incremental Encoder, with Brake	MOT-005-05-KL-D BRA-05-KL		400W / 3000 RPM / 179.8 oz-in
			SMC80S-0040-30AAK-3DKH	2500PPR Incremental Encoder	MOT-005-05-KL-D		400W / 3000 RPM / 179,8 oz-in
			SMC80S-0040-30ABK-3DKH	2500PPR Incremental Encoder, with Brake	MOT-005-05-KL-D BRA-05-KL		400W / 3000 RPM / 179,8 oz-in
	L011710						











Note: All Dimensions in (mm)

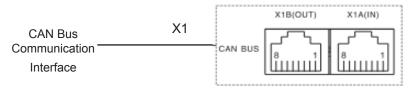


Model Parameter		FD123-CA-000 Series		
Б	Main Supply Voltage	24VDC-70VDC		
Power	Control Circuit Voltage	DC24V 1A (Optional)		
0 1	Rated Current (RMS)	10A		
Current	Peak Current (PEAK)	45A		
F	eedback Signal	2500PPR Incremental Encoder		
E	Brake Chopper	Via Wiring an External Braking Resistor (Mainly in Quick Start at Stop Application)		
Brake	Chopper Threshold	DC73V ± 2V (Default Value, Adjustable via Software)		
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 COMI Terminal for PNP (High Level Valid 12.5-30V) or NPN (Low Level Valid 0-5V) 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; The Output Current of Brake Control Output Port (OUT5+/OUT5-) 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, Z Signal, Maximum Speed Obtained in Torque Mode, Motor Brake, Position Limiting, Reference Found.		
	RS232	The Max. Baudrate is 115.2KHz, Use Kinco Software to Communicate with PC, or Via Free Protocol to Communicate with Controller.		
	Protection Function	Over-Voltage Protection, Under-Voltage Protection, Motor Over-Heat Protection (I²T), Short-Circuit Protection, Drive Over-Heat Protection, Etc.		
	CAN BUS	Support Maximum 1MHz Baudrate. Communicate 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		
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		



CAN

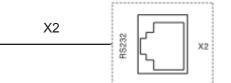
PIN Number	Signal
1	CAN H
2	CAN L
3	GND
Others	NC



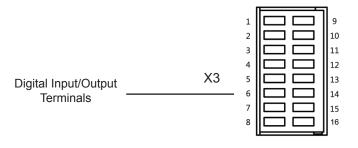
RS232

PIN Number	Signal
3	TXD
4	GND
6	RXD
Others	NC

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

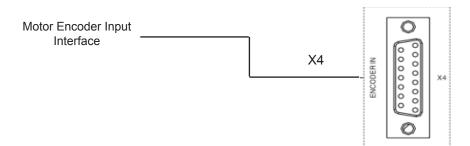


Signal	PIN No.	Signal
+24V	9	COM1
GNDS	10	DIN1
PUL+	11	DIN2
PUL-	12	DIN3
DIR+	13	DIN4
DIR-	14	OUT1+
OUT5+	15	OUT2+
OUT5-	16	COMO
	+24V GNDS PUL+ PUL- DIR+ DIR- OUT5+	Signal No. +24V 9 GNDS 10 PUL+ 11 PUL- 12 DIR+ 13 DIR- 14 OUT5+ 15



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	/V
7	W	15	/W
8	PTC_IN		





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
NC	No function
RB-	Negative terminal of braking resistor
RB+	Positive terminal for braking resistor
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

