

New Integrated Servo Motor *iSV-T Series*

Introduction

ISVxx-T integrated servo motors are 57mm frame sized brushless integrated motors with a 16-Bit encoder and a servo drive. Very compact size with all components integrated. iSVxxx-T motors save mounting space, eliminate encoder connection & motor wiring time, and cut/reduce cable and labor cost. RF-interferences are substantially reduced.

- Step & direction command input for position control
- Compatible mounting size with 57mm stepper motor
- Smooth motor movement and excellent response time
- High position accuracy
- Isolated control inputs of Pulse, Direction
- Current loop bandwidth (-3dB) 3.5KHz
- Speed loop bandwidth 650Hz
- Position loop bandwidth 300Hz
- Communication with PC via RS232
- Easy to tuning for CNC application with Protuner software
- Low torque-ripple with state-of-the-art design of magnetic circuit (low cogging torque)



Part Number	ISV-B23090T-D4	ISV-B23130T-D4	ISV-B23180T-D4
Rated Power (W)	90	130	180
Rated Voltage (V DC)	36	36	36
Rated Torque (Nm)	0.30	0.45	0.6
Peak Torque (Nm)	0.90	1.1	1.5
Rated Speed (rpm)	3000	3000	3000
Peak Speed (rpm)	4000	4000	4000
Max. Cogging Torque(mNm)	9.3	10.8	13.1
Weight (kg)	0.95	1.25	1.54

Parameter	Min	Typical	Max	Unit
Input Voltage	20	36	50	VDC
Continuous Current	0	-	6.0	A
Pulse Input Frequency	0	-	200	KHz
Pulse Voltage	0	5	24	V
Logic Signal Current	7	10	16	mA
Isolation Resistance	100	-	-	MΩ

Key Advantages

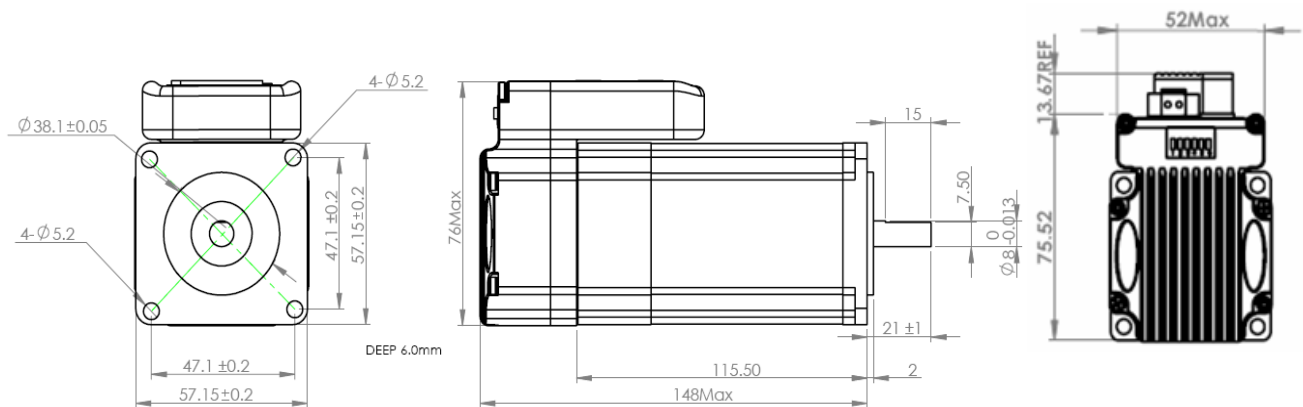
- ◇ **Compatible Size with 57mm stepper motor**
 - ✓ Can replace stepper motors directly due to same size
 - ✓ 38.1mm pilot , same as stepper motor
 - ✓ Rated torque 0.3-0.9Nm to replace 1Nm - 2Nm stepper motor
 - ✓ Stable torque curve and higher speed than comparable stepper motors

- ❖ **Easy tuning**
 - ✓ CNC working mode
 - ✓ One key for stiffness setting and inertia setting.
 - ✓ Stiffness setting and Pulse/Rev setting



- ❖ **Very cost effective and powerfull for CNC applications**
 - ✓ Encoder upgraded to 16bit magnetic encoder
 - ✓ Good performance with Brushless motor
 - ✓ Easy to set up and simple tuning
 - ✓ Easy to promote for the customers
 - ✓ Competitive cost

Dimensions of ISV-B23180T-D4:



Typical Applications:



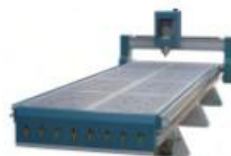
Printing Machines



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CNC Machines



Cutting Machines