



## P100 Vector Inverter Drum Motor Drive Card 100W 24V IO Signal Brushless DC Controller

Our Product Introduction

for more products please visit us on [drum-roller.com](http://drum-roller.com)

### Basic Information

- Place of Origin: China Jiangsu
- Brand Name: Winroller
- Certification: CE, SGS
- Model Number: Winroller P100 Vector Inverter Drum Motor Drive Card
- Minimum Order Quantity: 1
- Price: Contact Us
- Packaging Details: Wooden case
- Delivery Time: 7-15 word days
- Payment Terms: L/C, T/T
- Supply Ability: 500000/year

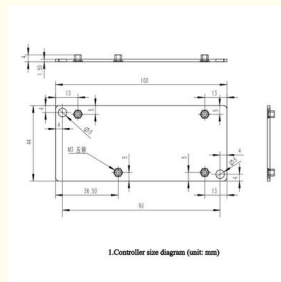
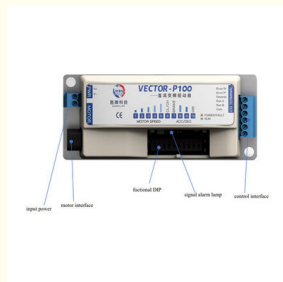


### Product Specification

- Product Name: P100 Vector Inverter Drum Motor Drive Card
- Rated Voltage: DC 24V
- Allowed Voltage Fluctuation:  $\pm 5\%$
- Peak Input Current: 10A
- Rated Power: 100W
- Braking Mode: Electronic Brake, Free Brake, Servo Brake
- Control Mode: IO Signal
- Acceleration And Deceleration Time: 5 To 35 Seconds Per Revolution
- Ambient Temperature: -10 To 40°C
- Ambient Humidity: Below 85%
- Highlight: **Drum Motor Drive Card 24V, Drum Motor Drive Card 100W, 100W drum motor controller**



### More Images



## P100 Vector Inverter Drum Motor Drive Card 24V IO Signal Brushless DC Controller

### Features Overview of P100 Vector Inverter Drum Motor Drive Card

The P100 Vector Inverter Drum Motor Drive Card features FOC control for silent operation, enhanced torque under heavy loads, rapid startup acceleration, three braking modes, and extensive adaptability for various applications in compact spaces.

### Function of P100 Vector Inverter Drum Motor Drive Card

The P100 Vector Inverter Drum Motor Drive Card utilizes Field-Oriented Control (FOC) technology, enabling precise motor control without noise, which enhances operational efficiency and user comfort. It provides 8%-10% more torque under heavy loads compared to traditional square wave methods, allowing for better performance in demanding applications.

This drive card also boasts a high starting torque that facilitates quicker startup acceleration, ensuring smooth operation from a standstill. It supports three braking modes—electronic, free, and servo braking—offering flexibility for various operational requirements. The electronic braking mode generates a magnetic field to slow down the rotor, while the free braking mode allows the rotor to continue spinning until mechanical load stops it. The servo braking mode uses Hall effect sensors to maintain rotor position when the run signal is lost.

Additionally, the P100 offers PNP and NPN adaptive functions, enhancing compatibility with different control systems. Its adjustable acceleration and deceleration range can be finely tuned across 16 settings, allowing for precise control over speed changes, making it ideal for diverse industrial applications.

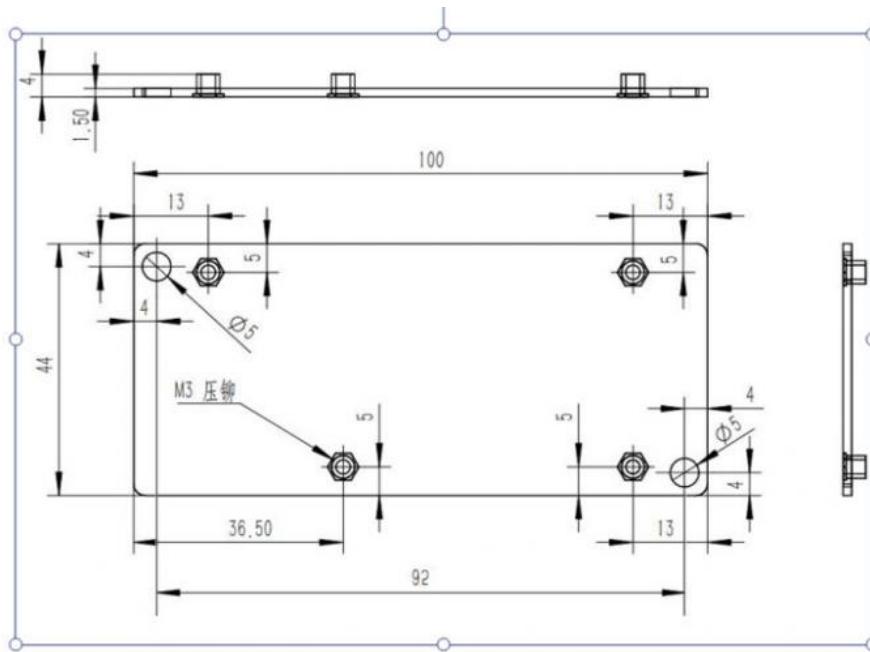
### Technical Parameters of P100 Vector Inverter Drum Motor Drive Card

P100 Vector Inverter Drum Motor Drive Card

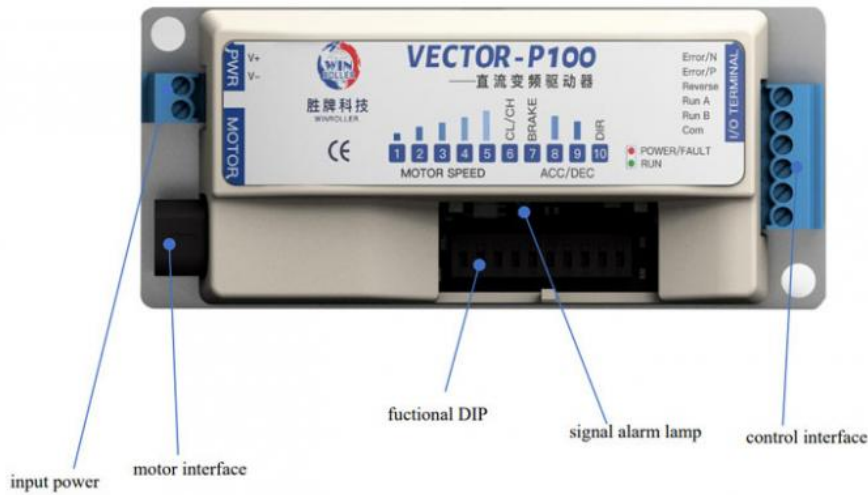
Rated Voltage	DC 24V	Allowed Voltage Fluctuation	±5%
Peak Input Current	10A	Rated Power	100W
Control Method	IO Signal	Braking Modes	Electronic Braking, Free Braking, Servo Braking
Acceleration and Deceleration Time	5 to 35 seconds per revolution	Ambient Temperature	-10 to 40°C
Ambient Humidity	Below 85%	Drive Mode	Brushless DC Driver

#### — Electrical specification

item	unit	specification	explain
controller model		vector-p100	
controller brushless mode		DC brushless controller	Hall sine wave control
rated voltage	V	DC24 ± 5%	
peak current	A	10	
rated power	W	100	
working form	%	100	S1: Continuous working system.
control mode		IO signal	
installation dimension	mm	92mm*36mm	
power interface		2 core screw access socket	nylon(PA66) , UL94V-2/0
		2 core screw access terminal	phosphor bronze(C5191),wire gauge: RVV2X1.0mm <sup>2</sup>
terminal control interface		6-core screw access socket	nylon(PA66) , UL94V-2/0
		6-core screw access terminal	phosphor bronze(C5191),wire gauge: ZR-RVSP0.5mm <sup>2</sup>
motor and hall interface		9-core square socket	nylon(PA66) , UL94V-2/0
		9 core square terminal	phosphor bronze(C5191),Motor phase wire gauge: R VV2X1.0mm <sup>2</sup> , hall wire guage: ZR-RVSP0.5mm <sup>2</sup>
ambient temperature	℃	-10 ~ 40	
ambient humidity		below 85%	No water drops, no rain



1.Controller size diagram (unit: mm)



2.controller interface definition



3.left side picture

**Input power**

item	name	function definition	explain
1	VIN+	DC24V positive input	Voltage input range: DC24V±5%
2	VIN-	DC24V negative input	Current: Rated current is divided into 3A and 4.2A

**Motor interface**

item	name	hall interface function	explain
1	U	motor U phase	connect to motor U phase (yellow wire)
2	V	motor V phase	connect to motor V phase (green wire)
3	W	motor W phase	connect to motor W phase (blue wire)
4	ENV-	GND	hall source negative (black wire)
5	ENV+	+5V hall power supply	hall source positive (red wire)
6	TEMP	temperature sensor NTC signal	temperature sensor NTC signal (white wire)
7	HA	hall signal A	connect to motor hall signal A (yellow wire)
8	HB	hall signal B	connect to motor hall signal B (green wire)
9	HC	hall signal C	connect to motor hall signal C (blue wire)



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