3. Driver Port and Wiring Introduction

3.1 Port definition, lead color description

A. Motor and power input ports

Terminal No.	Symbol	Name	Lead color description
1	A+	A phase motor winding＋	Black
2	A-	A phase motor winding -	Green
3	B+	B phase motor winding＋	Red
4	B-	B phase motor winding -	Blue
5	AC	Power Input	AC18-80V/DC24-110V
6	AC	Power Input	

Note: The motor phases cannot be interchanged.

B. Encoder signal input port

Terminal No.	Symbol	Name	Lead color description
1	PB+	Motor encoder B phase positive input	Yellow
2	PB-	Motor encoder B phase negative input	Green
3	PA+	Motor encoder A phase positive input	Black
4	PA-	Motor encoder A phase negative input	Blue
5	VCC	Encoder power supply +5V input	Red
6	GND	Encoder power ground	White

C. Control signal port

Terminal No.	Symbol	Name	Lead color description
1	PUL+	Pulse positive input	Signal source +5~24V can be driven
2	PUL-	Pulse negative input	
3	DIR＋	Direction positive input	Signal source +5~24V can be driven
4	DIR—	Direction negative input	
5	ENA＋	Motor enable positive input	When this signal is valid, the motor is in a free state and is not locked.
6	ENA-	Motor enable negative input	
7	Pend+	In-position signal positive output	After the motor is in place, the driver outputs a signal to the host computer
8	Pend-	In-position signal negative output	
9	ALM+	Alarm signal positive output	After the driver fails to protect, it outputs a signal to the host computer
10	ALM-	Alarm signal negative output	

D. Status Indicator

The green LED is the power indicator. When the drive is powered on, the LED is always on. The red LED is the fault indicator. When a fault occurs, the indicator flashes periodically. The number of times the red LED flashes after a fixed interval represents different fault information. The specific relationship is shown in the following table:

Number of flashes	Alarm Name	Alarm content
1	Overcurrent	Motor current is too large
2	Speeding	The motor speed exceeds the maximum limit (maximum 3000 rpm)
3	Location out of tolerance	The value of the position deviation counter exceeds the set value
4	Drive overheating	The drive temperature exceeds the set value (maximum 80°)
5	DC overvoltage	The main circuit input voltage exceeds the set value
6	EPROM Error	EPROM read and write errors
7	Encoder failure	Encoder wiring error
8	Motor connection fault	The motor wiring is wrong or the motor is broken

Note: When a fault occurs, please handle it according to the fault code. If the **ENA** signal is valid, the drive will clear all faults; the fault alarm can also be cleared by re-powering the drive.