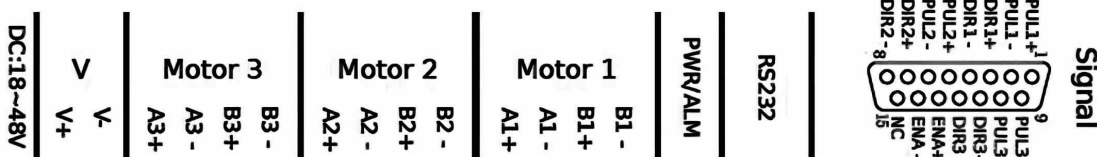




3-AXIS STEP MOTOR DRIVER

R60X3



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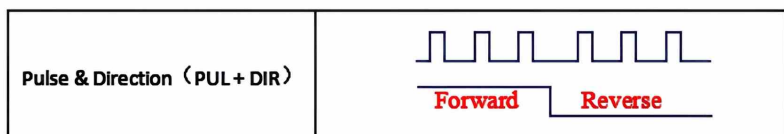
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Power supply	18 - 48 VDC
Output current	Debug software settings, up to 5.6 amps (peak)
Current control	PID current control algorithm
Segment settings	Debugging software setting, 200 ~ 65535
Speed range	Use the suitable stepper motor, up to 3000rpm
Resonance suppression	Automatically calculate the resonance point and inhibit the IF vibration
Parameter adaptation	Automatically detect the motor parameter when driver initialize, optimize the controlling performance
Pulse mode	Direction & pulse
Pulse filtering	2MHz digital signal filter
Idle current	Automatically halve the current after the motor stopping

### Current Setting

#### PUL, DIR Port: connection for pulse command

The R60X3 control signal is a pulse input and supports three-axis differential / pulse & direction mode. Pulse level is 3.3V ~ 24V compatible (no string resistor required)



## 2.1 Environmental requirement

Item	Rtelligent R60X3
Installation environment	Avoid dust, oil and corrosive environment
Vibration	0.5G (4.9m/s <sup>2</sup> ) Max
Operating temperature/humidity	0°C ~ 45°C / 90% RH or less (no condensation)
Storage and transportation temperature:	-10°C ~ 70°C
Cooling	Natural cooling / away from the heat source
Waterproof grade	IP54



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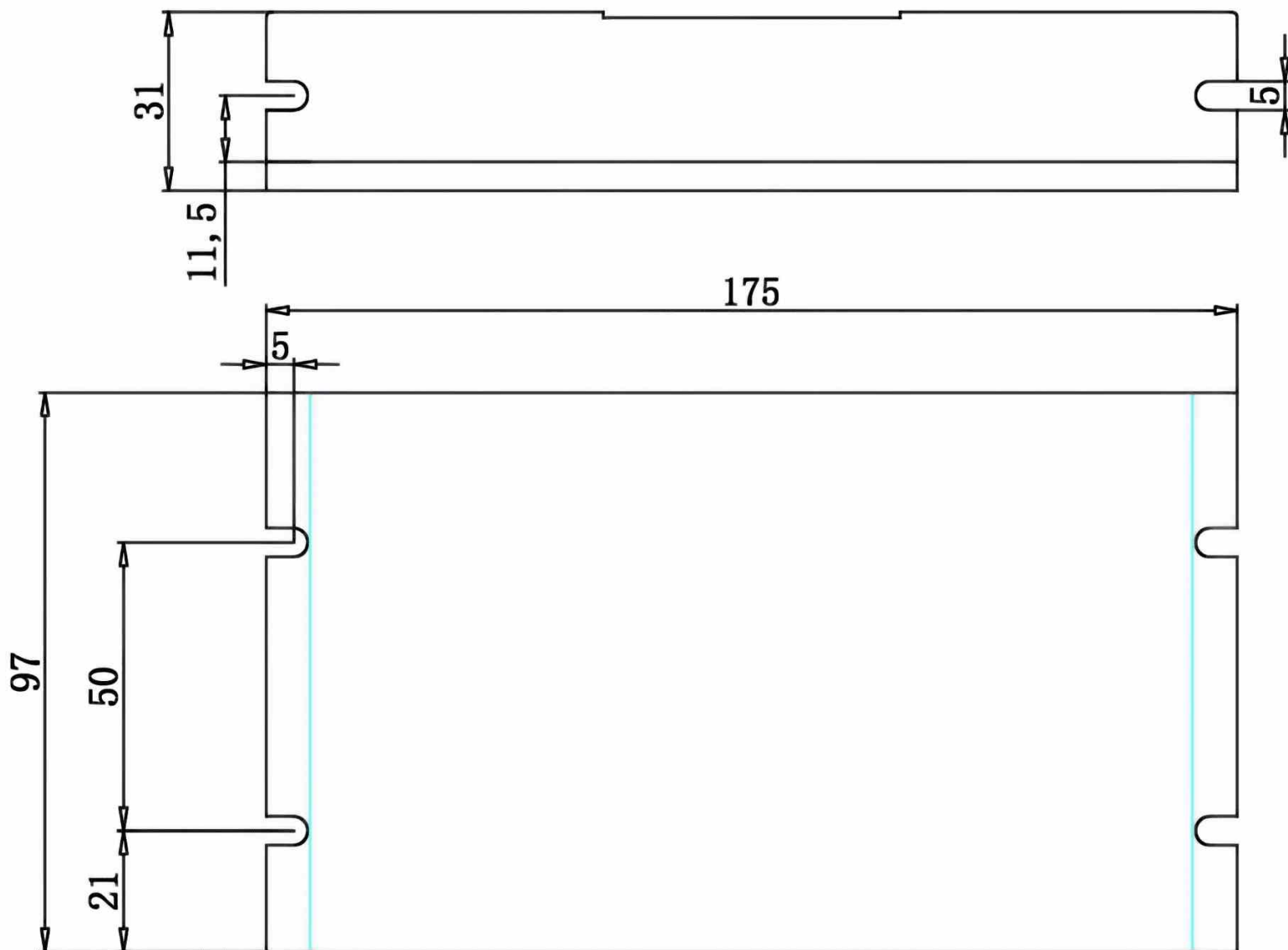


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## 2.2 Drive installation dimensions



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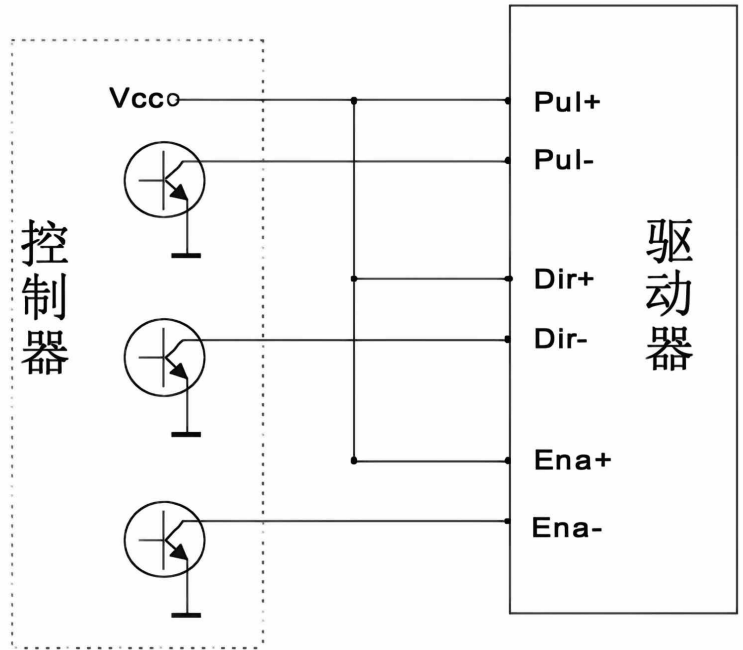
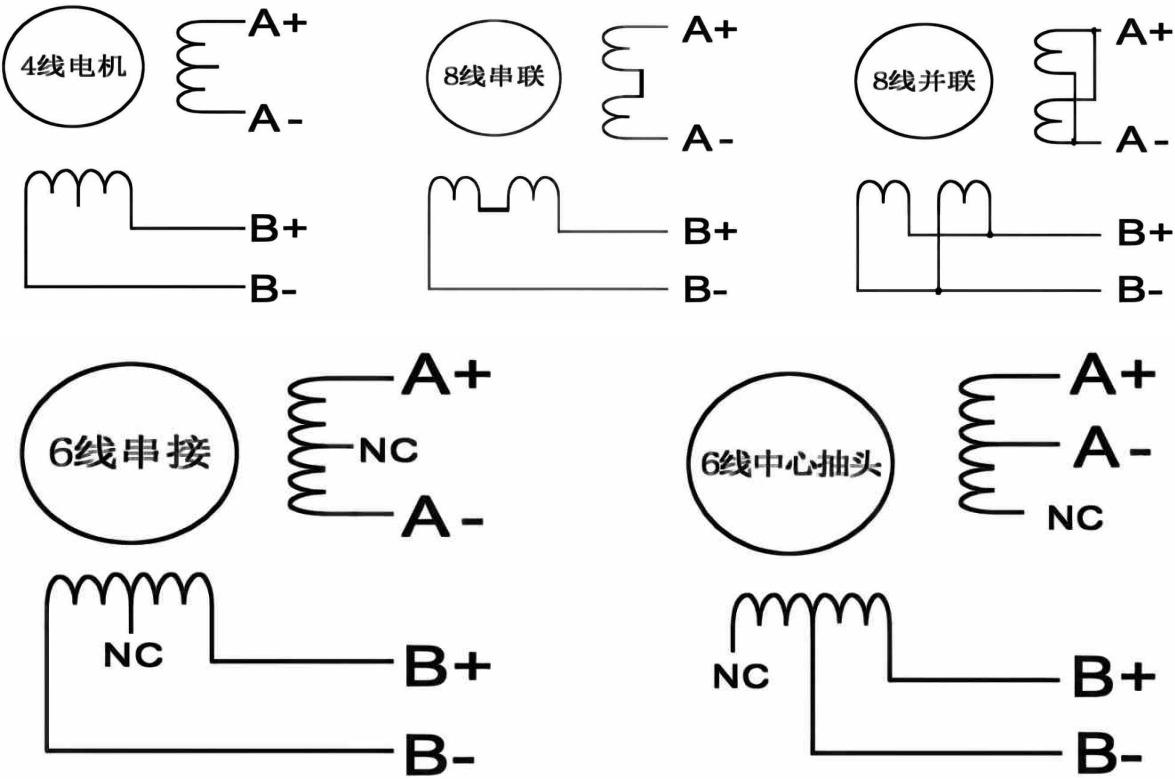
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### 3.1 Port function description

Function	Grade	Definition	Remarks		
Power supply input port	V+	Input DC power positive	DC 24~48V		
	V-	Input DC power negative			
Motor 1	A1+	Connect both ends of Phase A winding of Motor 1			
	A1-				
	B1+	Connect both ends of Phase B winding of Motor 1			
	B1-				
Motor 2	A2+	Connect both ends of Phase A winding of Motor 2			
	A2-				
	B2+	Connect both ends of Phase B winding of Motor 2			
	B2-				
Motor 3	A3+	Connect both ends of Phase A winding of Motor 3			
	A3-				
	B3+	Connect both ends of Phase B winding of Motor 3			
	B3-				
15 Pin Control signal interface	1	PUL1+	Motor 1 pulse port	3.3-24V compatible	
	2	PUL1-			
	3	DIR1+			Motor 1 direction port
	4	DIR1-			
	5	PUL 2+	Motor 2 pulse port		3.3-24V compatible
	6	PUL 2-			
	7	DIR 2+	Motor 2 direction port		
	8	DIR 2-			
	9	PUL 3+	Motor 3 pulse port	3.3-24V compatible	
	10	PUL 3-			
	11	DIR 3+	Motor 3 direction port		
	12	DIR 3-			
	13	ENA+	Enable signal port	3.3-24V compatible	
	14	ENA-			
	15				



### 3.3 Motor connection



## 6. Drive working status LED indication

LED status		Drive status
	Green indicator is on for long time	Drive not enabled
	Green indicator is flickering	Drive working normally
	One green indicator and one red indicator	Motor 1 overcurrent
	Two green indicator and one red indicator	Motor 2 overcurrent
	Three green indicator and one red indicator	Motor 3 overcurrent
	One green indicator and two red indicators	Drive input power overvoltage
	One green indicator and three red indicators	The internal voltage of the drive is wrong

