Power DC24-48V(±10%)

Please make sure the power supply is more than 2 times

Fuse — DC+ / DC-

External Control COM

Internal control wiring

PW
FWD/DI1 — Forward
REV/DI2 — Reverse
JOG/DI3 — Jog
CLR/DI4 — Clean
BRK/DI5 — Brake
COM

VAR/AI2 — Analog/PWM 0–5V/3KHz–10KHz

ERR/DO1 — Error Output / Open-collector Output / Sinking current less than 50mA

SPD/DO2 — Speed Output / Sinking current less than 50mA

485A(+)
485B(-) — Modbus485-RTU / Baud rate: 19200(8+1+N) / Initial slave address: 01 / Please refer to the product manual for details.

Warning Light	Red Light	
Running Light	Green Light	

Stop — Normal: Green light on, red light off / Error: Blinking red and green light means error

Running — Normal: Green light blink, red light off / Error: Green light blink, red light blink / Current limiting: Green light blink, red light blink

Main Circuit:

5V/Thin Red
Hw/Thin Blue
Hv/Thin Green
Hu/Thin Yellow
0V/Thin Black
W/Thick Blue
V/Thick Green
U/Thick Yellow

Hall

The wiring between motor and driver is suggested to be shorter than 1 meter

Forward (cw) — Viewing Angle

Min / Max — Speed Knob

Maximum current limit adjustment knob: 3.0A–15A — I-Lmt

Acceleration/deceleration time adjustment knob: 0.3s–10s — ACC/DEC

Dip Switch

SW1	Open Loop=OFF	Close Loop=ON
SW2	AI1 Speed Control=OFF	AI2 Speed Control=ON
SW3	Internal Control=OFF	485 Control=ON
SW6	485 terminal resistance disconnected=OFF	485 terminal resistance connected=ON

	2-Pole	3-Pole	4-Pole	5-Pole
SW4	ON	ON	OFF	OFF
SW5	ON	OFF	ON	OFF

External keyboard (optional)

Connection Diagrams

Internal Power (NPN) Connection Diagram — PLC / Driver

External Power (NPN) Connection Diagram — PLC / Driver

External Power (PNP) Connection Diagram — PLC / Driver
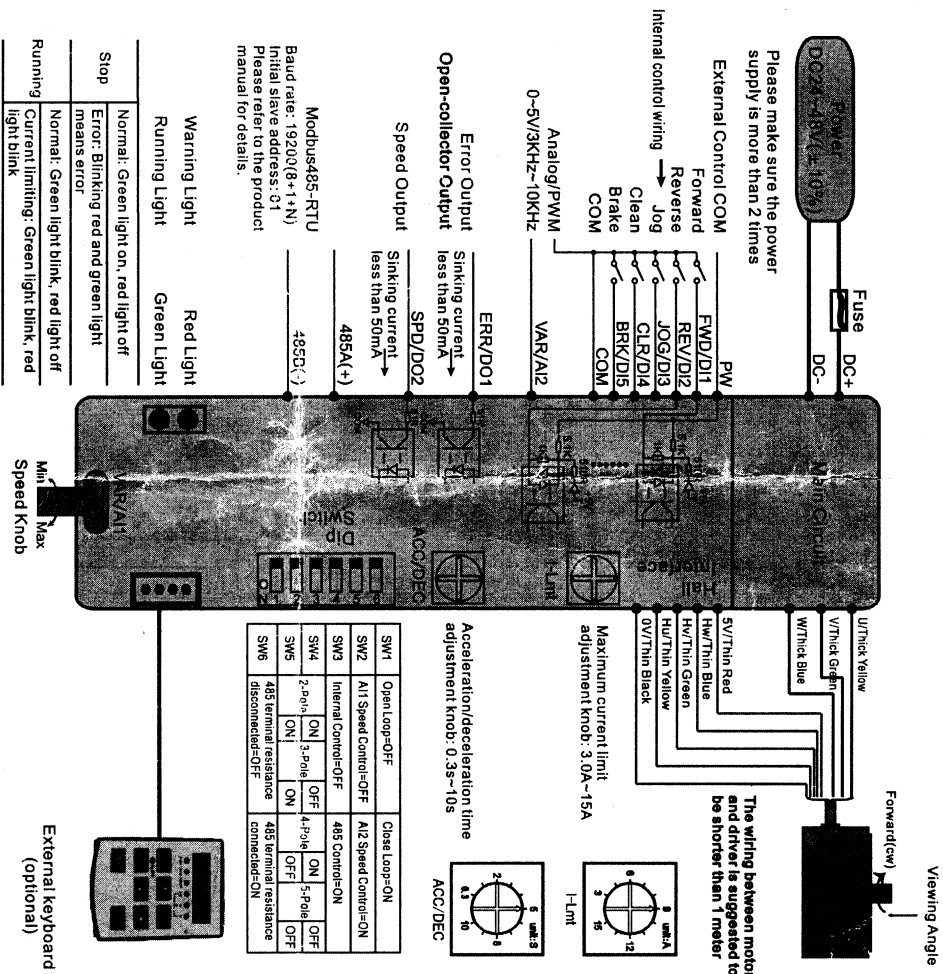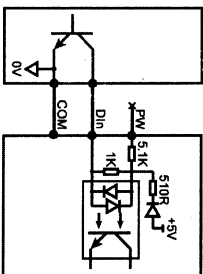
➤ Error And Maintenance

When the driver detects the fault, it will stop the machine and indicate the error code through the LED (red, green) or external keyboard. Users can check and repair according to the error code.
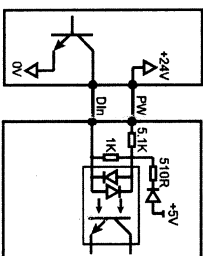
● Green light blink once = 5   ● Red light blink once = 1

Error code = Green light blinking times*5+Red light blinking times

Error Code	Error Name	Error Indication	Error Cause	Treatment Method
1	Hardware accelerated overcurrent	0 green 1 red	1. Excessive acceleration and deceleration	1. Increase time of acceleration/deceleration
2	Hardware deceleration overcurrent	0 green 2 red	2. Low voltage	2. Check input voltage
3	Hardware constant overcurrent	0 green 3 red	3. The power of driver is low	3. Change to higher power driver
4	Software accelerated overcurrent	0 green 4 red	4. Shock load	4. Check whether load is normal
5	Software deceleration overcurrent	0 green 5 red	5. Interphase short circuit	5. Check/change cables or motor
6	Software constant overcurrent	1 green 1 red	6. Strong external interference sources exist	6. Check whether there is strong external interference
7	Overvoltage when accelerating	1 green 2 red	1. High input voltage	1. Check input voltage
8	Overvoltage when decelerating	1 green 3 red	2. Fast forward reverse switching	2. Increase the time gap of switching
9	Overvoltage when constant	1 green 4 red	3. Being pulled by an external power / 4. Driver hardware exception	3. Add external braking device / 4. Seek technical support
10	Bus undervoltage	1 green 5 red	1. Low supply voltage / 2. Excessive motor power / 3. Supply voltage drop	1. Check power supply / 2. Set motor rated current / 3. Fault reset
11	Motor overload	2 green 1 red	1. Overload / 2. Excessive motor power / 3. Motor locked-rotor or sudden load change	1. Check power supply / 2. Increase time of acceleration / 3. Reduce load, check motor and related devices
12	Driver overload	2 green 2 red	1. Low supply voltage / 2. Excessive acceleration time / 3. Overload	1. Check power supply / 2. Increase time of acceleration / 3. Change to higher power driver
13	Hall error	2 green 3 red	1. Hall line break / 2. Strong external interference sources exist	1. Check hall connection cable / 2. Check whether there is strong external interference source
14	Locked-rotor	2 green 4 red	1. Overload / 2. Motor stuck	1. Check the mechanical connections of the motor / 2. Check motor connection cable
19	Current detection error	3 green 4 red	1. Drive hardware damage	1. Change the driver
27	Parameter storage error	5 green 2 red	1. Reach upper limit of erasing time for once power on	1. Power on again
29	Overcurrent feedback error	5 green 4 red	1. Drive hardware damage	1. Change the driver
30	Output phase loss error	5 green 5 red	1. U/V/W output phase loss / 2. Drive hardware damage	1. Check the cable connection of U/V/W / 2. Change the driver