



User's Manual
For
ISDT23-45
Integrated Stepper Motor Driver



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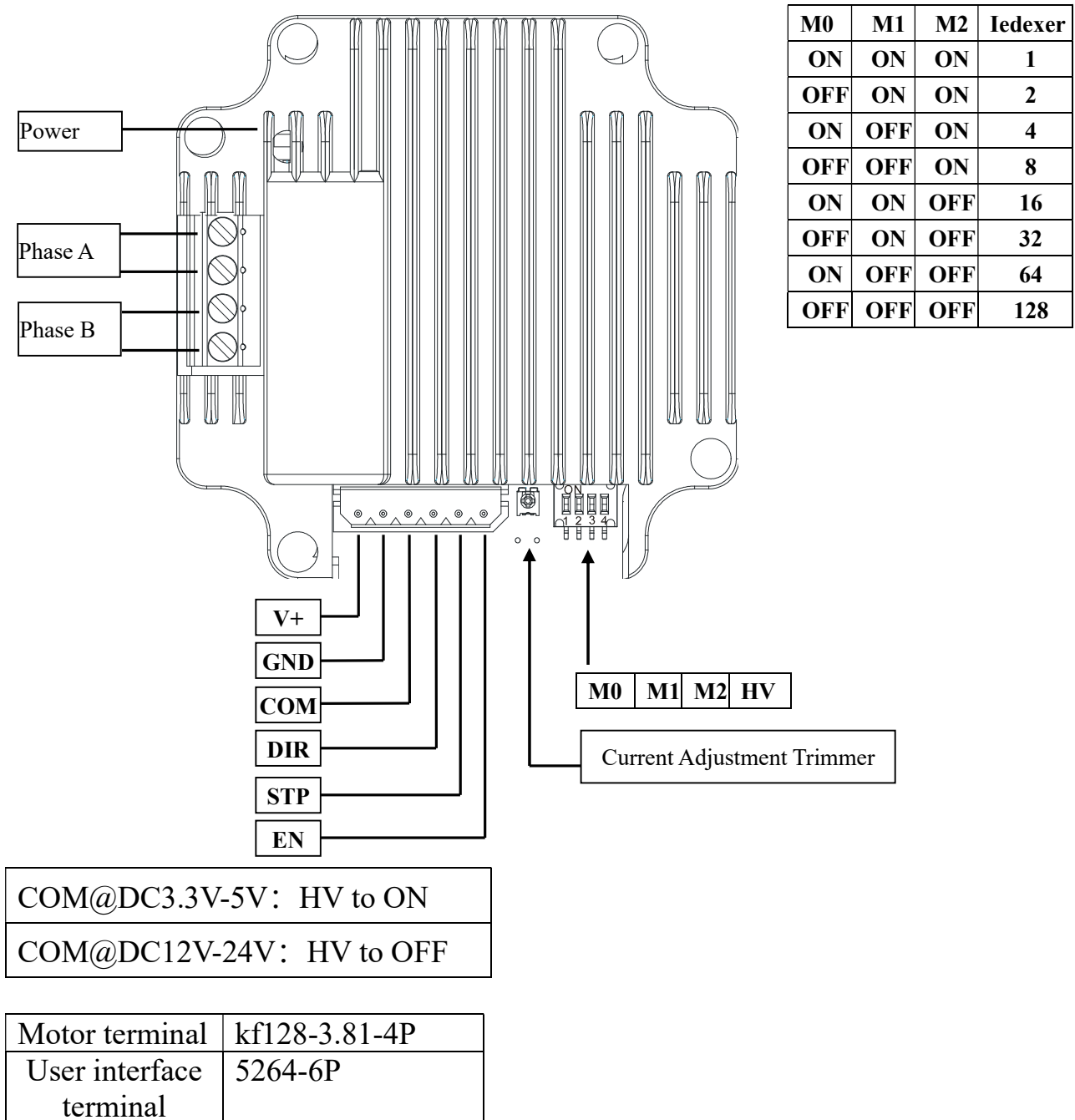
1. Features

- ☆ Miniature design, mounted onto NEMA 23 step motor
- ☆ Enclosure is made of die-cast aluminum which improve heat dissipation
- ☆ Current reduce automatic when inoperation
- ☆ Optical-isolated input, Compatible with 3.3-5V and 12-24V signal voltage
- ☆ Common signal support common anode and cathode
- ☆ Drive current adjustable between 1A-4.5A
- ☆ 1/2/4/8/16/32/64/128 Indexer options

2. Parameters

Supply Power		DC11V-DC36V/5A, recommend DC24V
Indexer Interface	COM	signal voltage common anode/cathode signal voltage :3.3V-5V[HV slide switches switch ON] signal voltage :12V-24V [HV slide switches switch OFF]
	DIR	0V or Vcom current: 8mA@3.3V/8mA@12V/15mA@5V/18mA@24V
	STP	0V or Vcom. current: 8mA@3.3V/8mA@12V/15mA@5V/18mA@24V Frequency 100-20KHz
	EN	0V or Vcom. current: 8mA@3.3V/8mA@12V/15mA@5V/18mA@24V Vcom Or NC:enable stepper motors;0V disable
Drive Current		4.5A Maximum Drive Current. 1A-4.5A adjustable drive current
Drive mode		PWM chopper constant current
Indexer		Optional 1、 2、 4、 8、 16、 32、 64、 128
Protect		Supply Power Reverse protection, Out overload, drive overheating, drive overcurrent
Operating temperature		-20°C-85°C

3. Electrical Interface



Adjust drive current

Motor Driver is capable of providing maximum 4.5A per phase drive current respectively. A trimmer (potentiometer) is provided to serve this purpose at the bottom of the controller, as shown in the above figure. Measuring the mapped voltage (Ref) when Motor stop and power on

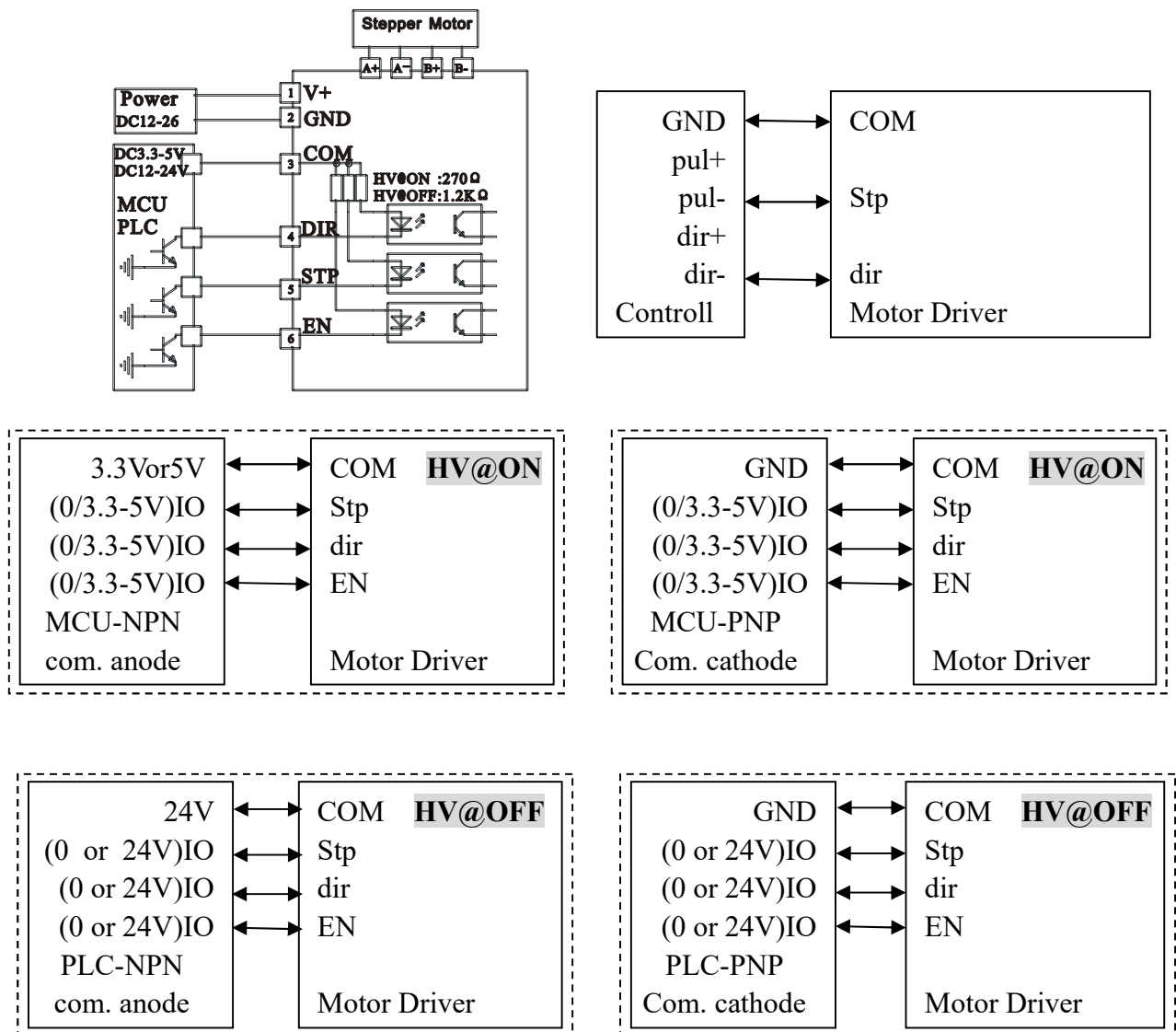
Mapped voltage “ref” of 0.5- 2.25V proportionally represents 1 ~ 4.5A

4. Typical Connection Diagram

Signal voltage Compatible with 3.3V-5V and 12V-24V

Pin “HV” of slide switches Slide to “ON”, Signal voltage must be lower than 5V

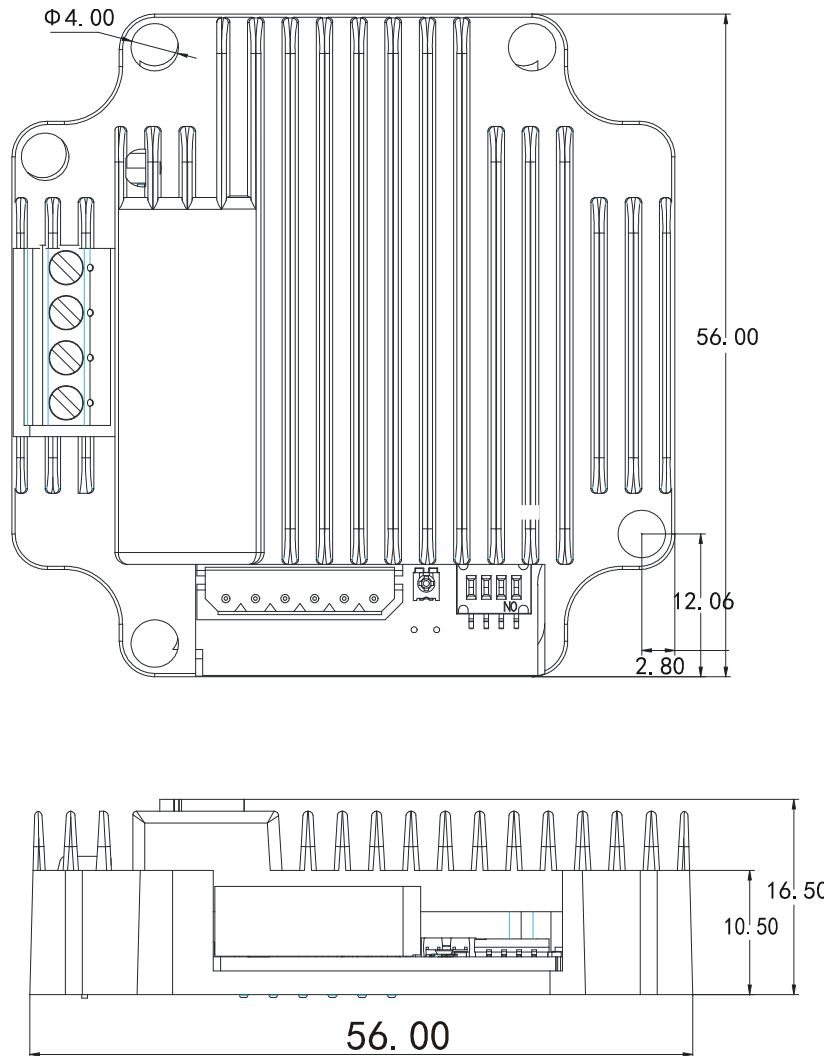
Pin “HV” of slide switches Slide to “OFF”, The signal voltage can be applied to 12 to 24V



5. Packing

NO.	Number	parts
1	1	stepper motor driver
2	1	5264-6P with line 30cm

Appendix I DIMENSIONS (mm)



Appendix II INSTALLATION

NEMA 23 Stepper Installation

1. Screw mount motor driver onto the motor
2. Wire the motor leads.

