OK2D60BH Closed Loop Driver Instructions

					Goldon.	
	Pulse/	rev T	able			
	Pulse/rev	SW1	SW2	SW3	SW4	
	Default	on	on	on	on	
	800	off	on	on	on	
	1600	on	off	on	on	
	3200	off	off	on	on	
	6400	on	on	off	on	
	12800	off	on	off	on	
	25600	on	off	off	on	
	51200	off	off	off	on	RS
OK2D60BH	1000	on	on	on	off	
UNZDUUDII	2000	off	on	on	off	₽ SW5
	4000	on	off	on	off	.≣ SW4
	5000	off	off	on	off	SW3
	8000	on	on	off	off	SW2
	10000	off	on	off	off	₹ SW1
	20000	on	off	off	off	<u>a</u>
	40000	off	off	off	off	
VDC:16V~70V	SW5: Moto	r DIR, off	=CCW,	on=CW		
High Voltage Enco	der	Signa	I C	ontrol	Signa	PWR/ALM
# 5V EA - + 5V EGND - + 4VDC - A - + VDC - GND		2 2	四日	I O	O D	민진
		Z Z	15 5	F 7	ਡ⊱	FI≱I
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Features:

It can drive NEMA 23, NEMA 24 Closed Loop Stepper Motor without complex parameter adjustment. The motor will be automatically matched after power-on.

Voltage input range: 16~70 VDC

Maximum peak current: 5.6A

Microstep (Steps/rev.) : 400~51200

Signal input: differential/single-ended, pulse/directional or dual pulse,

Optically isolated signal input, strong anti-interference ability;

Max. Pulse Input (KHZ): 200KHz

Closed-loop vector control ensures that the motor outputs high speed and high torque while ensuring that the motor does not lose steps.

Variable current control, automatically outputs matching current according to load and speed, greatly reducing motor heating.

Ultra-low vibration and noise;

With overvoltage, overcurrent, position following error and other protection functions;

1. Specification

Parameters	BH86				
	Min	Typical	Max	Unit	
Output Peak Current	-	-	5.6	А	
Input Voltage	18	36	70	VDC	
Logic Signal Current	7	10	16	MA	
Pulse input frequency	-	200	-	KHZ	
Isolation resistance	500			ΜΩ	

2. Operating Environment and other Specifications

Cooling	Natural Cooling or Forced cooling		
Operating	Environment	Avoid dust, oil fog and corrosive	
Environment		gases	
	Storage Temperature	-20%~+80℃	
	Ambient Temperature	0°C - 70°C	
	Humidity	<80%RH, No-condensing and	
		No-frost	
Vibration	-	5.9m/s²,Max	
Weight	-	0.58kg	

3. Power and Motor Connector

PIN	Name	Description	Instruction
1	A +	Motor Phase A+	If the initial direction of the motor is opposite to
			what is required, you can set SW5.
2	Α -	Motor Phase A-	
3	B +	Motor Phase B+	
4	В -	Motor Phase B-	
5	VDC	Input DC power	18V~ 50VAC

6	GND	Negative terminal of	Negative pole of power supply
		power supply	

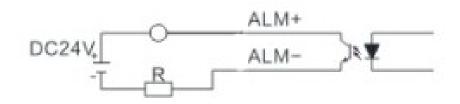
4. Encoder signal input port

Pin	Name	Description	Instruction
1	EB+	Encoder channel B+	
		input	
2	EB -	Encoder channel B-	
		input	
3	EA+	Encoder channel A+	
		input	
4	EA -	Encoder channel A-	
		input	
5	VCC	Encoder power supply	+5V internal output
6	EGND	Signal ground	0V internal output

5. Control Signal Port

Name	Instruction
PUL+	Pulse input signal:

1	1
	Pulse Signal: In single pulse (pulse/direction) mode, this input represents pulse
	signal, each rising or falling edge active (software configurable, see Closed-loop
PUL -	Stepper software manual for more detail); In double pulse mode (software
PUL -	configurable), this input represents clockwise (CW) pulse, active both at high level
	and low level. The width of PUL signal is at least 1.2 μ s. 5-24V when PUL-HIGH,
	0-0.5V when PUL-LOW. In Double pulse mode : CW
DIR+	DIR signal: In single-pulse mode, this signal has low/high voltage levels,
	representing two directions of motor rotation; In CW/CCW mode, this signal
	is-counter-clock (CCW) pulse. For reliable motion response, DIR signal should be
	ahead of PUL signal by 5us at least. 5-24V when DIR-HIGH, 0-0.5V when
DIR -	DIR-LOW. Please note that rotation direction is also related to motor-driver
	wiring match. Exchanging the connection of two wires for a coil to the driver will
	reverse motion direction.
ENA+	Enablesignal: This signal is used for enabling/disabling the drive. High level (NPN
	control signal, PNP and differential control signals are on the contrary, namely
	low level for enabling.)
ENA -	
	For enabling the drive and low level for disabling the drive. Usually left
	UNCONNECTED
ALM +	The fault signal output is in the form of open collector.
ALM -	



Alarm in place output wiring diagram

6. DIP Switch Settings

The driver uses a six-digit DIP switch to set the subdivision and motor rotation direction. The detailed description is as follows:

6.Microstep Setting:

Steps/rev	SW1	SW2	SW3	SW4
Default	on	on	on	on
800	off	on	on	on
1600	on	off	on	on
3200	off	off	on	on
6400	on	on	off	on
12800	off	on	off	on
25600	on	off	off	on
51200	off	off	off	on
1000	on	on	on	off
2000	off	on	on	off
4000	on	off	on	off

5000	off	off	on	off
8000	on	on	off	off
10000	off	on	off	off
20000	on	off	off	off
40000	off	off	off	off

SW5:Motor DIR Initialize running direction, ,off=CC clockwise (Positive

direction) ,on=CW Counterclockwise (Reverse direction)

SW6:off; Standard mode on; Start acceleration assist (Not applicable to arc interpolation

signals)

SW7	SW8	Motor Frame Size(mm)
on	on	Frame Size (42 x 42)
off	on	Frame Size (57 x 57)
on	off	Frame Size (60 x 60)
off	off	Frame Size (57 x 57) open loop, current
OII	OII	4.0A

7. Mechanical Specifications: (unit: mm [1inch=25.4mm])

