Close-Loop Stepper Drive

Close-Loop Stepper Motor 2 Phase

Servo-Stepper Drive

Stepper Motor 3 Phase

EtherCAT Drive

Bus-Type Drive 2 Phase

Integrated Motor Open-Loop

Motor

Stepper Motor

Stepper Motor 3 Phase

Speed-Torque Curve

Accessories

YKD2608 © 2 Phase DSP Stepper Drive

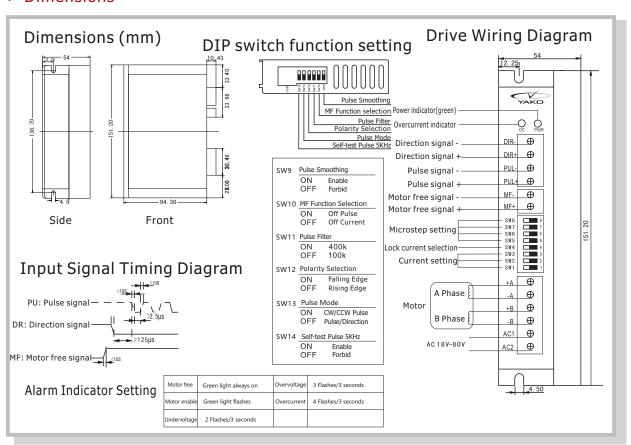


Features

- 32-bit DSP control, low noise and superior vibration performance
- · 16 constant torque microstep setting, up to 256 microsteps
- Smooth and accurate current control, effectively reduce motor heating
- The highest pulse response frequency is 400KHz
- When the pulse stops over 200ms, the motor current is halved
- · Excellent smoothness in low frequency microsteps
- · Optically isolated differential signal input, strong anti-interference ability
- · Drive current is adjustable below 6.0A
- · Voltage input range: AC18~80V
- · With over voltage, under voltage etc. fault protection
- Small size, volume 151*94*54 (mm³), weight 0.65kg
- Suitable for 57-86mm(NEMA23-34) 2 phase open-loop stepper motors.
- · Compared with the standard version, enhanced version adds the following 6 functions: Pulse smoothing, MF function selection, pulse filter, polarity selection, pulse mode, self-test pulse 5HKz

Application: Mainly used in engraving machines, laser equipment, labeling machines, electronic equipment, advertising equipment, packaging equipment

Dimensions



▶ YKD2608 Microstep Setting

Microstep	2	4	8	16	32	64	128	256	5	10	20	25	40	50	100	200
PU/REV	400	800	1600	3200	6400	12800	25600	51200	1000	2000	4000	5000	8000	10000	20000	40000
SW5	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW6	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW7	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW8	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

▶ YKD2608© Current Setting

Current RMS	2.00	2.57	3.14	3.71	4.28	4.86	5.43	6.00
Current Peak	2.40	3.08	3.77	4.45	5.14	5.83	6.52	7.20
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW1	ON	OFF	ON	OFF	ON	OFF	ON	OFF

SW4:OFF=Half Current ON=Full Current

Terminal Introduction

Symbol	Function	Specification							
PWR	Power indicator	When power on, the green indicator lights up.							
O.C	Fault indicator	When over current, under voltage or over voltage, the red indicator lights u							
D.D.	SW13=OFF, it's direction control signal	Used to change motor direction. Input resistance 220 Ω , requirements: low level 0 \sim 0.5V, high level 4 \sim 5V,							
DR-	SW13=ON, it's CCW pulse signal	Effects on falling edge, the motor moves a step when the pulse goes from high to low. The input resistance is 220Ω . It requires: low level $0\sim0.5V$, high level $4\sim5V$, pulse width>2.5us.							
DR+	Input signal +	Connect with power supply, 5V~24V can drive, need to connect a current limiting resistor with DR- when >5V							
PU-	SW13=OFF, it's pulse signal	Effects on falling edge, the motor moves a step when the pulse goes from high to							
PU-	SW13=ON, it's CW pulse signal	low. The input resistance is 220 $\!\Omega$. It requires: low level 0 ~ 0.5V, high level 4 ~ 5V, pulse width>2.5 us.							
PU+	Input signal +	Connect with power supply, 5V~24V can drive, need to connect a current limiting resistor with PUL- when >5V							
MF-	Motor free signal -	When effective (low level), the motor coil current is turned off, the driver stop working and the motor is free.							
MF+	Motor free signal +	Connect with 5V power supply, 5V~24V can drive, need to connect a current limiting resistor when >5V							
+V	Power supply +								
-V	Power supply -	AC18~80/DC24~110V							
+A,-A	Motor connection	-B -							
+B,-B	Trotor connection	4 leads +A -A 6 leads +A -A (For low speed) +A -A (For ligh speed) +A -A							



- Notice 1. Do not reverse the power supply, input voltage should not exceed AC48V.
 - 2. The input control signal level is 5V. The current limiting resistor needs to be connected when > 5V. (Please refer to page 4 for connection)
 - ${\tt 3.\ When\ overcurrent,\ overvoltage\ or\ undervoltage,\ the\ O.C\ light\ flashes,\ please\ restart\ the\ power}$ supply after eliminating motor connection and other short-circuit faults.
 - 4. The green PWR indicator lights up when the drive is powered on.

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