Jiangsu Wantai Motor Co., Ltd,

2H

STEP MOTOR DRIVER

DQ2522MA

Microstep:1~200 Current:5A Max. Input VAC : 110~220V AC

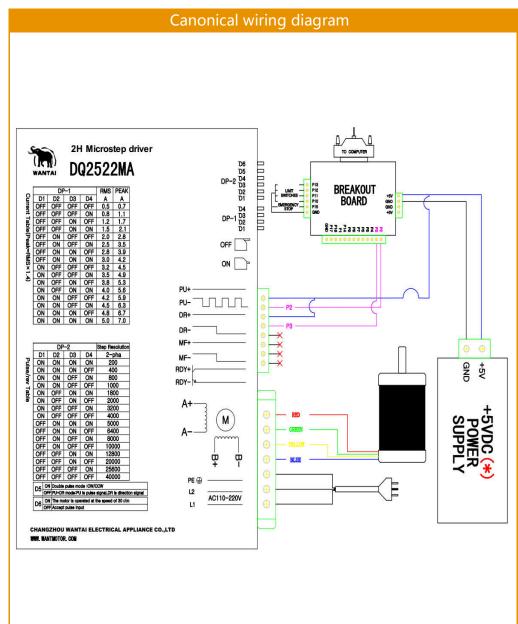
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Summary

- DSP controller
- Photoelectric isolation signal input/output
- Widely used in big and medium-sized CNC equipment.
- Fit within 5A, NEMA.23~42 stepper motor
- Phase memory function (when the input has stopped unexpectedly or powered off.)
- Single power input, voltage range: AC 90V to 240V

Features				
Input voltage	110~220VAC			
Microstep	40000 Max.			
Frequency	150Kpps Max.			
Working vibration	3G Max.			
Use environment	0 ~ 70 °C, no condensation, no frost			
Storage environment	- 20 ∼ 80 °C, avoid direct sunlight			

		RS-232	
1	RX	Receiving data	Function preservation
2	TX	Sending data	Function preservation
3	GND	Ground wire	Function preservation
4	+5V	5V power	Function preservation



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Dial the code set place					M	licro-s	tep set	tting		
	D P - 1					D P - 2				
Rated	Peak	D1	D2	D3	D4	Microstep	D1	D2	D3	D4
0.5	0.7	OFF	OFF	OFF	OFF	200	ON	ON	ON	ON
0.8	1.1	OFF	OFF	OFF	ON	400	ON	ON	ON	OFF
1.2	1.7	OFF	OFF	ON	OFF	800	ON	ON	OFF	ON
1.5	2.1	OFF	OFF	ON	ON	1000	ON	ON	OFF	OFF
2	2.8	OFF	ON	OFF	OFF	1600	ON	OFF	ON	ON
2.5	3.5	OFF	ON	OFF	ON	2000	ON	OFF	ON	OFF
2.8	3.9	OFF	ON	ON	OFF	3200	ON	OFF	OFF	ON
3	4.2	OFF	ON	ON	ON	4000	ON	OFF	OFF	OFF
3.2	4.5	ON	OFF	OFF	OFF	5000	OFF	ON	ON	ON
3.5	4.9	ON	OFF	OFF	ON	6400	OFF	ON	ON	OFF
3.8	5.3	ON	OFF	ON	OFF	8000	OFF	ON	OFF	ON
4	5.6	ON	OFF	ON	ON	10000	OFF	ON	OFF	OFF
4.2	5.9	ON	ON	OFF	OFF	12800	OFF	OFF	ON	ON
4.5	6.3	ON	ON	OFF	ON	20000	OFF	OFF	ON	OFF
4.8	6.7	ON	ON	ON	OFF	25600	OFF	OFF	OFF	ON
5	7.0	ON	ON	ON	ON	40000	OFF	OFF	OFF	OFF

DP - 2				
D5	ON	Double pulse mode: forward/Reverse rotation (CW CCW)		
υs	OFF	Single pulse mode: pulse/direction (PU DR)		
D6	ON	Automatic detection: run at 30 RPM according to internal signal		
סט	OFF	Automatic detection: driver receives external pulses		

	Frequently questions a	and troubles shooting	
Issure	Possible cause	Measures	
	No indicator light	Please check the power supply	
	'ALM'' indicator light is	Please check the driver for overcurrent	
Motor	on	overheat, or lack of motor	
not turn	Motor shaft is locked and	Please check external control signals	
not turn	motor can't operate		
	Indicator light is normal,	Please check if MF signal is active	
	motor shaft is unlocked		
	The max speed is set too	Please lower the max speed	
Motor	high		
blocked	The acceleration time is	Please Lengthen the time or increase	
Dioened	too short	the pulse filtering constant of the driver	
	too short		
	Microstepping is wrong	Choose the right microstepping score	
Inaccurate position	Excessive motor load	Please replace the motor or moderately increase running current of the driver	
The leakage	The driver and motor	Please reliably ground the driver and	
in a rountage	are not grounded	the motor	
Severe		Please moderately reduce driver	
warming of	Large running current or	running current or improve ventilation	
the driver and the	bad external thermal conditions	of the driver and the motor	
and the motor	CONCINONS		

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Signal port				
Port	Mark	Function		
1	PU+	Positive Input		
2	PU-	Pulse Signal		
3	DR+	Positive Input		
4	DR-	Dirction Signal		
5	MF+	Positive Input		
6	MF-	Enable Signal		
7	RDY+	Ready Postive		
8	RDY-	Ready Negative		

	Motor			
Port	Mark	Function		
1	B-	Motor B phase terminal negative		
2	B+	Motor B phase terminal positive		
3	A-	Motor A phase terminal negative		
4	A+	Motor A phase terminal positive		
5	PE	Ground wire		
6	L2	Power input terminal, no matter		
7	L1	positive or negative (AC110~220V)		
	_	-		

Alarm signal				
Undervoltage	•	Power supply voltage is lower than AC 65VAC		
Overpressure	• •	Power supply voltage is higher than AC 265VAC		
Overheating	• • •	The temperature of Drive is higher than 75 °C		
Overcurrent	••••	Driver overcurrent alarm		

Attention

- 1. The input voltage cannot exceed AC 260V, please plug in the voltage stabilizer or isolation transformer when the power grid fluctuates greatly.
- 2. Falling edge is effective of input pulse signal. If you need the rising edge to be effective, please set inner parameter of the driver.
- 3. With over-temperature protection, the drive temperature drops to 50 degrees, and the power can be restored.
- 4. In case of overcurrent protection, please check the motor wiring and other short circuit faults. After troubleshooting, it is necessary to restore the power supply.
- 5. In case of no motor, the fault indicator ALM will be on. Please check motor wiring; after the fault is removed, it will resume upon a second-time power-on.