ZDRV. C14-200S2-R-A PRODUCT MANUAL

Features

- Simple wiring, quick operation, knob speed adjustment
- Sensorless, sensorless vector control
- ➢ Motor line distance can reach up to 50 meters
- ➢ Support 485 Modbus (RTU) protocol
- Comprehensive fault detection and protection functions

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Model Definition

Ζ	DRV.	C14 ·	-200	S2 -	- R -	- A
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Mark	Description	Content	
1	Company	Z : Zhongda	
2	Model	DRV:Brushless Motor Driver	
3	Version C14:C14 Series		
4	Power	Power 200:Max. output power 200W	
⑤ Voltage		S2:高压AC220V	
6 Communication		R:Support 485_MODBUS (RTU)	
7	Structure	acture A:Panel Type	

📀 Dri ver



Compatible Motor



📀 Dimensions







Unit: mm



Panel Instruction



wiring Definition

The driver grounding screw must be grounded before use



Note: There is no order for U,V and W Different line sequences will only change the running direction.



Input signal circuit



- The switch quantity wiring method requires the customer to prepare their own power supply (5V) or use an internal power supply;
- To prevent he motor from switchingdirectionsathighspeeds, it isbest to stop the motor for switching;
- O The GND of other controllersneeds o be connected to the COM of the driver.

Output signal circuit



- The signal output of the driver is an open-drain output. The state of the signal doesn't indicate the voltage level of the signal, but indicates the on-off state of the internal transistor.
- External power supply: DC5 ~ 30 V, 50 mA or less.
- Recommended resistancevaluewhen connectingcurrentlimiting resistor R* DC24V: 2.7k ~5.1k (1W) DC5V: 510~1k (0.25W)



Failure and maintenance

The following table shows that when the driver detects a fault and stops, the LED (red and green) flashes alternately to display the fault indication. The user can troubleshoot and repair according to the fault code.

The green light flashes once for 5. The red light flashes once for 1 Fault code = (Green flashes \times 5) + Red flashes

Fault Code	Fault Name	Cause	Solution	Treatment	
E. OCH	Hardware Overcurrent	0 Green 1 Red	 Acceleration and deceleration are too fast Voltage is too low Driver power is too low 	 Increase the acceleration and deceleration time Check input voltage Select high-power driver Check if the load is normal Check/replace the cable or motor Check if there is a strong interference source 	
E. 0C	Software Overcurrent	0 Green 2 Red	 Sudden load Phase short circuit Strong external interference source 		
E. OL	Motor overload	0 Green 3 Red	 The power supply voltage is too low Motor power is too large The motor is stalled or the load suddenly changes 	 Check the power input Set the rated current of the motor Reduce the load and check the motor and machinery 	
E. 0C1	U phase overcurrent	0 Green 4 Red	1. Acceleration/ deceleration too fast	 Increase the acceleration/ deceleration time Select a high-power driver Check if the load is normal Check/replace the cable or motor Check if U/V/W are connected securely 	
E. 0C2	V phase overcurrent	1 Green 0 Red	 Insufficient driver power Sudden load application Phase-to-phase short 		
E. 0C3	W phase overcurrent	1 Green 1 Red	5.U/V/W phase loss		
E. OV	DC bus overvoltage	1 Green 2 Red	 Input voltage too high Rapid forward/reverse switching Being dragged by external force and in power generation state 	 Check the power supply voltage Increase the forward and reverse switching time Add an external braking device 	
E. LV	DC bus undervoltage	1 Green 3 Red	 Low power voltage Over-acceleration triggering external power protection Supply voltage drop Driver hardware fault 	 Verify power input Increase acceleration time Fault reset Contact technical support 	
E. LOC	Locked rotor	1 Green 4 Red	1.Overload 2.Motor stuck	 Check the motor mechanical connection Check the motor connection line 	
E. OH	Driver overheating	2 Green 0 Red	1.Excessive load 2.Driver hardware abnormality	1.Cooling treatment 2.Derating	
E. POUT	Motor phase loss	2 Green 1 Red	1.U/V/W output phase loss 2.Driver hardware abnormality	1. Check the connection between the driver and the motor 2. Contact technical support	