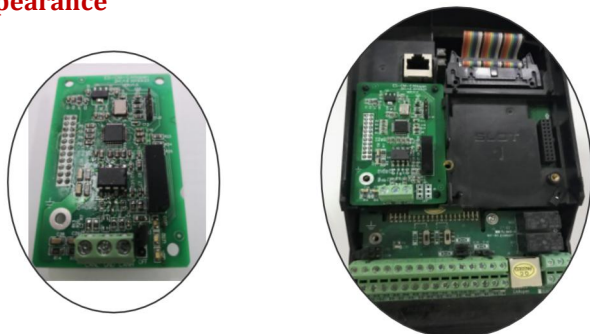


CUMARK ES-CM-CAN CANopen Card User Manual

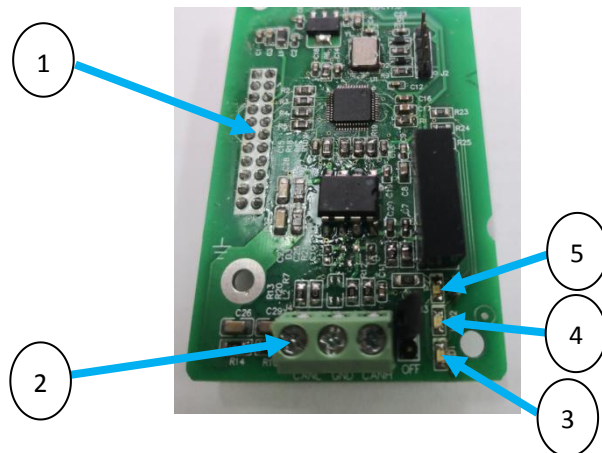
Applicable to SLOT2 Card Dimensions

Note: In order to provide you good drive control services and safety in use, please read the following instructions carefully before using this product in related electrical and mechanical systems. If you need more details, welcome to consult our agent for the latest information or visit our website www.cumark.com.cn.

1. Appearance



Note: the picture on the right is a schematic diagram of the effect after installation.



2. Mechanical & Electrical Installation Instructions

- ✓ Before installation, please confirm that the ac drive is in the power-off state.
- ✓ Refer to the figure above and remove the front cover of the drive, then insert the card and lock it with the M3*8 screws in the packing box.
- ✓ F1~F3 Shape ac drives only need to lock the right screw, F4~F9 need lock their both left and right sides.
- ✓ Complete the wiring after verifying the model number.
- ✓ It is recommended to use shielded twisted pair connection for CAN bus.
- ✓ To prevent interference, please use qualified shielded wire. Keep the shielded wire independent, do not run it side by side with AC220V or higher voltage circuits, and ensure that it is kept at a distance of more than 15CM from other control wires, motor wires, and power wires. When it must be staggered, please observe the principle of wiring perpendicular to each other.
- ✓ Control the length of the wiring, because it is inversely proportional to the signal frequency.
- ✓ Please use this product in an indoor environment free of corrosive gases, liquids and dust.


4. Application Environment

Operating Temperature	-10 ⁰ C ~ 50 ⁰ C (No condensation, no freezing)
Storage Temperature	-40 ⁰ C ~ 70 ⁰ C (No condensation)
Environment Humidity	Less than 95% RH (No ondensation)
Vibration	(IEC 60068-2/-6.Test Fc) Max.0.1mm(5 to 13.2Hz); max.7m/s ² (13.2 to 100Hz) Sine Vibration

5. Related Parameters Setting

After the wiring is completed, set the relevant parameters for the inverter (set it to start at a given speed), and the required parameters are as follows

- ✓ 10.00 (remote 1 start function) is set to 5 (fieldbus);
- ✓ 11.02 (Remote 1 control mode) is set to 0 (speed);
- ✓ 21.00 (speed refl signal source) selection (fieldbus reference 1);
- ✓ 24.00 (torque refl signal source) selection (fieldbus reference 2);
- ✓ 50.00 (fieldbus enable) is set to 1 (enable);
- ✓ 52.00 and 52.01 parameters set the node address and baud rate according to the specific situation;



This product is an electrostatic sensitive component! Although the corresponding anti-static damage protection has been made before leaving the factory, it is still recommended that you minimize unnecessary bare-hand contact during installation and use to avoid damage.

3. Interface Terminals Instruction

No	Name	Description												
1	CANopen Interface Terminals	Connect the CANopen Card with Inverter												
2	CANopen Communication Bus interface Terminals	There are 3 wiring terminals on this CANopen card whose function description are shown in Table 1.1: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Terminal Symbol</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CANH</td> <td>Connect with CAN Bus+</td> </tr> <tr> <td>2</td> <td>CANL</td> <td>Connect with CAN Bus-</td> </tr> <tr> <td>3</td> <td>GND</td> <td>Ground Wiring</td> </tr> </tbody> </table>	No.	Terminal Symbol	Description	1	CANH	Connect with CAN Bus+	2	CANL	Connect with CAN Bus-	3	GND	Ground Wiring
No.	Terminal Symbol	Description												
1	CANH	Connect with CAN Bus+												
2	CANL	Connect with CAN Bus-												
3	GND	Ground Wiring												
3	Indicator LED1	Status indication												
4	Indicator LED2	Status indication												
5	Indicator LED3	Fault indication												

6. Indicator Status Instruction

	Status	Description
LED1	flicker	There is external communication which is data exchange between the inverter slave station and the CAN bus.
LED2	flicker	There is communication between the CANopen Card and the main control board.
LED3	flicker	Communication Bus Failure