

EME-A22A Analog Extension Card for VFD-E Series Instruction Sheet

- ◆ Please thoroughly read this instruction sheet before installing option cards and putting them into use.
- ◆ The content of this instruction sheet may be revised without prior notice. Please consult our distributors or download the most updated version at <http://www.delta.com.tw/industrialautomation/>.

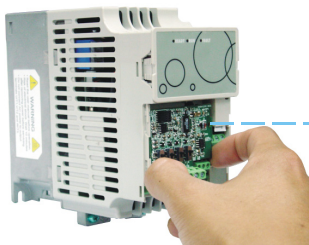
1 Layout

I/O Card (EME-A22A)



2 Installation

- Make sure that the AC Motor Drive is powered off before operation. DO NOT insert or remove the card when the AC Motor Drive is powered on.
- Please mount the extension card as shown and fix it with the screw packed with the card.



Screw torque:
Maximum 2kgf-cm

- Terminals Screw Torque: Maximum 5kgf-cm
- Wire Gauge: 14 ~ 24 AWG (2.1 ~ 0.2 mm²)

NOTE

- Only when the extension card is correctly installed on the AC Motor Drive, the extension card be automatically detected. The parameters can be set in Group 12. If extension card is not installed, only parameters Group 0 ~ Group 10 can be set. Refer to Chapter 5: Parameters in the user manual for further details.

3 Specification

Environmental

Operating Temperature	-10°C to 50°C (non-condensing and not frozen)
Storage Temperature	-20°C to + 60°C
Ambient Humidity	Less than 90%RH (non-condensing)
Installation Altitude	Below 1000m
Vibration	Below 20 Hz: Maximum 9.81 m/s ² (1G) 20 ~ 50Hz: Maximum 5.88 m/s ² (0.6G)

NOTE

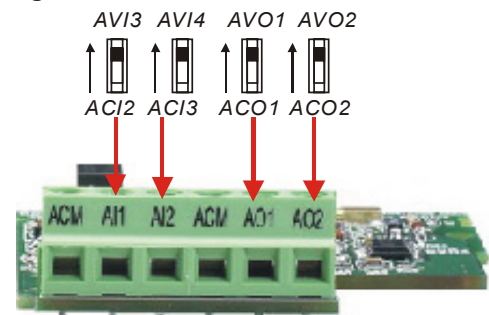
- Always use this product in a clean indoor location free from dust, corrosive gas and liquid.

Inputs/Outputs

EME-D33A

Terminal Symbols	Descriptions
AI1 AI2	Input Voltage: 0 ~ 10VDC = 0 ~ Maximum Output Frequency (Pr.01.00) Input Impedance: 100KΩ Resolution: 12 bits
	Input Current: DC 0 ~ 20mA=0 ~ Maximum Output Frequency (Pr.01.00) Input Impedance: 250Ω Resolution: 12 bits Voltage/Current Switch: Please refer to the following diagram
AO1 AO2	Output Voltage: DC 0 ~ 10V Output Impedance: 1K ~ 2MΩ Resolution: 12 bits
	Output Current: DC 0 ~ 20mA Output Impedance: 0 ~ 500Ω Resolution: 12 bits Voltage/Current Switch: Please refer to the following diagram
ACM	Analog control signal common

Voltage/Current Switch



4 Notes

- When the relays are used to switch inductive loads (relays, contactors, motors, etc), connect an RC network or Varistor parallel to the load to suppress voltage spikes.
- For safety, it is recommended to use fuses for the circuitry that is switched by the relays. The fuse specification must be within the specified contact limits.
- Please use shielded wires to avoid interferences and connect the shield to ground.
- The ends of wires must be tinned or crimped.
- To avoid interference, route the extension card wires separately and as far away (at least 15cm) as possible from other control wires, motor wires and power wires, etc. Where these wires must cross each other, please make sure they are at a 90° angle.
- Always use and operate this product within the limit of its specifications.

EME-A22A VFD-E 系列的模拟扩展卡说明书

- ◆ 请详细阅读下列说明后才使用本产品，以确保使用安全。
- ◆ 由于产品精益求精，当内容规格有所修正时，请咨询代理商或至台达网站(<http://www.delta.com.tw/industrialautomation/>)下载最新版本。

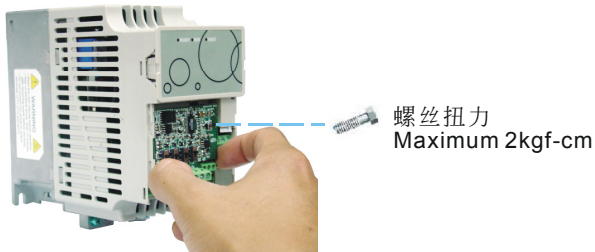
1 外观

模拟输入/输出卡 (EME-A22A)



2 安装方式

- 安装前请确认驱动器在断电状态下。
- 请以下图方式安装扩展卡并使用包装内的螺丝固定以避免扩充卡松脱。



- 端子螺丝扭力：Maximum 5kgf-cm
- 线径：14 ~ 24 AWG (2.1 ~ 0.2 mm²)

NOTE

- 若扩展卡正确安装至变频器上，变频器将会自动侦测扩展卡且可使用参数群 12 (Group 12) 设定。如没有安装扩展卡的话，参数只有 Group 0 ~ Group 10 可设定。详细参数设定请参考使用手册第五章参数说明。

3 规格

环境

操作温度	-10°C to 50°C (无结露且无结冻)
储存温度	-20°C to + 60°C
环境湿度	90%RH 以下 (无结露)
安装高度	低于 1000m
震动	20 Hz 以下: Maximum 9.81 m/s ² (1G); 20 ~ 50Hz: Maximum 5.88 m/s ² (0.6G)

NOTE

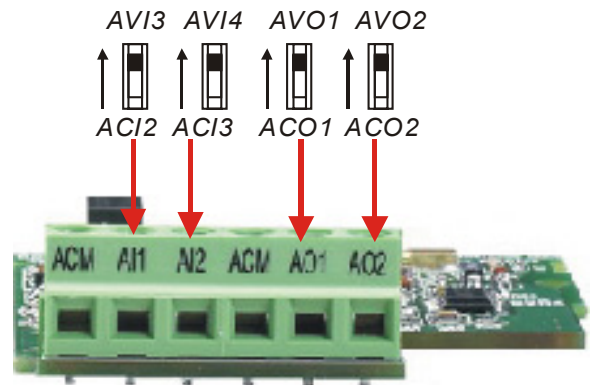
- 请使用此产品于无腐蚀性气体、液体及无尘垢的室内。

输入/输出

EME-D33A

端子	说明
AI1 AI2	输入电压范围：0 ~ 10VDC =0 ~ 最大输出频率 (Pr.01.00) 输入阻抗：100KΩ 分辨率：12 bits
	输入电流型范围：DC 0 ~ 20mA=0 ~ 最大输出频率 (Pr.01.00) 输入阻抗：250Ω 分辨率：12 bits 电压/电流切换请依下图所示
AO1 AO2	输出电压范围：DC 0 ~ 10V 输出阻抗：1K ~ 2MΩ 分辨率：12 bits
	电流输出范围：DC 0 ~ 20mA 输出阻抗：0 ~ 500Ω 分辨率：12 bits 电压/电流切换请依下图所示
ACM	模拟控制信号共同端

电压/电流切换开关



4 注意事项

- 连接电感性负载（继电器，电磁接触器，电机等）时，请加装火花消除器(RC network or Varistor)于线圈侧。
- 基于安全考量，请于回路内加装保险丝（规格不可大于接点限制）。
- 尽可能使用隔离线（隔离层接于大地），以避免干扰。
- 线头请吃锡或打端子。
- 基于安规上的考量，配线请保持独立且与其它控制线，电机线，电源线等保持 15cm 以上距离，如有交错的必要请保持垂直配线。
- 任何时刻的操作皆不可超过规格上的限制。