

# 产品规格书

## Product Datasheet



### F5-BA0002B

#### 主要信息 Main

|                                |  |
|--------------------------------|--|
| 产品系列 Range Of Product          | FC5                                    |
| 产品类型 Product Or Component Type | 模拟量输出扩展板 Analog output extension Board |
| 模拟量输出通道 Analog output Channels | 2                                      |
| 模拟量输出类型 Analog output Type     | Voltage/Current                        |
| 分辨率 Resolution                 | 12 Bits                                |

## 补充信息 Complementary

### 模拟量输出特性

| 输出特性 Output characteristics                 | 参数 Parameter  |
|---|---|
| 输出范围 Output range                           | <ul style="list-style-type: none"><li>◆ 电压 Voltage output: 0~10V DC</li><li>◆ 电流 Current output: 0~20mA DC or 4~20mA DC</li></ul>   |
| 端子 I/O terminal                             | 可拆卸端子台 Removable terminal block   |
| 负载阻抗 Load impedance                         | <ul style="list-style-type: none"><li>◆ 电压 Voltage output:&gt;2k<math>\Omega</math></li><li>◆ 电流 Current output:&lt;400<math>\Omega</math></li></ul>                        |
| 负载类型 Load type                              | 阻性负载 Resistive load   |
| 稳定时间 Stabilization time                     | 750 $\mu$ s   |
| 总输出系统传递时间 Total output system transfer time | 10 ms + 1 scan cycle  |
| 输出误差 (总误差) Output error - total error       | 满量程的 $\pm 1\%$ $\pm 1\%$ of full scale range  |
| 分辨率 Resolution                              | 12 位带符号 12-bit Signed   |
| 温漂 Temperature drift                        | $\pm 0.5\%$ *满量程, 单位为 $^{\circ}\text{C}$ $\pm 0.5\%$ of full scale range/ $^{\circ}\text{C}$  |
| 非线性 Non-linear                              | $\pm 1\%$ *满量程 $\pm 1\%$ of full scale range  |
| 保护类型 Protection type                        | 输入与内部电源隔离 Input isolated from internal power supply   |
| 输出保护 Output protection                      | <ul style="list-style-type: none"><li>◆ 短路不损坏 (电压输出) Short circuit without damage (voltage output)</li><li>◆ 开路保护 (电流输出) Open circuit protection (current output)</li></ul> |
| 电缆类型 Cable type                             | 屏蔽电缆 Shielded cable(meets electromagnetic immunity requirements)  |
| 电缆长度 Cable length                           | 3~30m   |

### 环境特性 Environmental Characteristics

| 类别 Category                          | 特性 Characteristic                             |
|--------------------------------------|---|
| 运行环境温度 Operating ambient temperature | -10 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ |
| 存储温度 Storage temperature             | -20 $^{\circ}\text{C}$ ~70 $^{\circ}\text{C}$ |
| 相对湿度 Relative humidity               | 55%~95%, 无凝露 without condensation             |

|                          |  |
|--------------------------|--|
| 污染等级 Class of pollution  | 2 (IEC60664)   |
| 防护等级 Class of protection | IP20   |
| 涂层 Coating               | 涂层防护, 干膜厚度 $\geq 20\mu\text{m}$ ; 加强版干膜厚度 $\geq 40\mu\text{m}$ Coated protection, dry film thickness $\geq 20\mu\text{m}$ ; reinforced dry film thickness $\geq 40\mu\text{m}$ |
| 海拔高度 Altitude            | 运行: 0m~3,000m Operation: 0m~3,000m<br>运输: $\leq 6,000\text{m}$ Transportation: $\leq 6,000\text{m}$  |
| 抗震性能 Seismic performance | 5Hz~13.2Hz, 振幅 7mm; 13Hz~100Hz, 加速度 2G, X、Y、Z 三轴方向各 20 次<br>5~13.2Hz Amplitude 7mm, 13Hz~100Hz Acceleration 2G, 20 times each in X, Y and Z axes                               |
| 抗冲击性能 Impact performance | 半正弦波, 加速度 15G, 持续 11ms, X、Y、Z 三轴方向各 6 次<br>Semi-positive sine wave, acceleration 15G, duration 11ms, 6 times in each of the X, Y and Z directions                              |

## 电磁敏感性 Electromagnetic Susceptibility

| Standard              | Method            | Item  |
|-----------------------|-------------------|---|
| EN IEC 61000-6-4:2019 | CISPR 16-2-1      | Conducted Emissions at AC Mains Power Port (150kHz-30MHz) |
|                       | CISPR 32          | Conducted Emissions at Wired Network Port(150kHz-30MHz)   |
|                       | CISPR 16-2-3      | Radiated Emissions(30MHz-1GHz)                            |
|                       | CISPR 16-2-3      | Radiated Emissions(Above 1GHz)                            |
| EN IEC 61000-6-2:2019 | EN 61000-4-6:2014 | Conducted Immunity at AC Mains Power Port(150kHz-80MHz)   |
|                       | EN 61000-4-6:2014 | Conducted Immunity at Signal Port150kHz-80MHz             |
|                       | EN 61000-4-4:2012 | Electrical Fast Transients Burst at AC Mains Power Port   |
|                       | EN 61000-4-4:2012 | Electrical Fast Transients Burst at Signal Port           |
|                       | EN 61000-4-2:2009 | Electro static Discharge                                  |
|                       | EN 61000-4-8:2010 | Power Frequency Magnetic Field                            |

| Standard | Method                    | Item                           |
|----------|---------------------------|--------------------------------|
|          | EN IEC 61000-4-3:2020     | Radiated Immunity(80MHZ-6GHz)  |
|          | EN 61000-4-5:2014+A1:2017 | Surge at AC Mains Power Port   |
|          | EN 61000-4-5:2014+A1:2017 | Surge at Signal Port           |
|          | EN IEC 61000-4-11:2020    | Voltage Dips and Interruptions |

F5 系列交流电源型 PLC 系统符合下述的安全标准：

The F5 Series AC power supply type PLCs system meets the following safety standards:

- IEC 61010-1:2010 + A1:2019
- AMD1: 2016

### 端子定义 Definition of Terminals

|            |          |     |    |     |     |    |     |
|------------|----------|-----|----|-----|-----|----|-----|
| F5-BA0002A | Terminal | VQ0 | C0 | AQ0 | VQ1 | C1 | AQ1 |
|------------|----------|-----|----|-----|-----|----|-----|

标识的含义请参见下表 For the meaning of marks , please refer to the table below.

| Mark    | Meaning   |
|---------|---|
| VQ*、AQ* | 模拟量输出正极 Analog output positive terminal         |
| C*      | 模拟量输入/输出公共端 Analog input output common terminal |

### 外形尺寸 Dimension:

40\*38\*18 (W\*H\*D)

单位 Unit: mm

