

产品规格书

Product Datasheet



F5-BA0200B

主要信息 Main

产品系列 Range Of Product	FC5
产品类型 Product Or Component Type	模拟量输入扩展板 Analog input extension Board
模拟量输入通道 Analog input Channels	2
模拟量输入类型 Analog input Type	Voltage/Current
分辨率 Resolution	12 Bits

补充信息 Complementary

模拟量输入特性

输入特性 Input characteristics	参数 Parameter	
输入范围 Input range	<ul style="list-style-type: none"> ◆ 电压 Voltage input: -10 ~ 10 V DC or DC 0~10V DC ◆ 电流 Current input: 0 ~ 20mA or 4 ~ 20mA 	
输入阻抗 Input impedance	<ul style="list-style-type: none"> ◆ 电压 Voltage input: >200kΩ ◆ 电流 Current input: 237.5~262.5Ω 	
端子 I/O terminal	可拆卸端子台 Removable terminal block	
采样周期 Sampling time	10 ms /Channel + 1cycle	
总输入系统传递时间 Total input system transfer time	20 ms+1cycle	
输入偏差 Input deviation	Max ±1 % of Full range	
分辨率 Resolution	12 Bits	
温漂 Temperature drift	± 0.5% of Full range /°C	
共模抑制 Common-mode rejection	40 dB, DC to 60 Hz	
噪声抑制 Noise suppression	0~5000ms	
非线性 Non-linear	±1 % of Full range	
最高运行输入 Maximum operating input (no damage)	±30 V DC	±30mA DC
保护类型 Type of protection	Input isolated from internal power supply	
错误配置 (电压->电流) Misconfiguration (voltage -> current)	<ul style="list-style-type: none"> ◆ 当输入介于±30V DC, 不能造成损坏 When the input is between ±30 VDC, no damage can be caused ◆ 当输入超出±30V DC, 造成永久损坏 When the input exceeds ±30 VDC, permanent damage is caused 	

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电缆类型 Cable type	屏蔽电缆 Shielded cable
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°C~60°C
存储温度 Storage temperature	-20°C~70°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≥20μm; 加强版干膜厚度≥40μm Coated protection, dry film thickness ≥ 20μm; reinforced dry film thickness ≥ 40μm
海拔高度 Altitude	运行: 0m~3,000m Operation: 0m~3,000m 运输: ≤6,000m Transportation: ≤6,000m
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 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 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
	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-BA0200A	端子	VI0	CO	AI0	VI1	C1	AI1
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标识的含义请参见下表 For the meaning of marks , please refer to the table below.

Mark	Meaning
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VI*、AI*	模拟量输入正端
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

