

Schneider Series Service Manual

170AAI03000

1. Description

The Schneider Electric 170AAI03000 is designed as an analog input base capable of handling eight differential channels. It supports a 16-bit signed data format and has a conversion time of 12 ms.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Analog Input Base
Product	Line Modicon Momentum
Part	Number 170AAI03000
EAN	3595861147683
Weight	1.00 lbs (0.45 kg)
Number	of Channels 8 Channels
Analog	Input Type Differential
Data	Format Full 16 Bits Signed
Conversion	Time 12 ms
Isolation	Between Channels 200V DC for 1 Minute
Isolation	Between Channels and Ground 500V AC for 1 Minute
Isolation	Between Channels and Bus 500V AC for 1 Minute
Operating	Temperature Range 0°C to 60°C
Storage	Temperature Range -40°C to 85°C
Maximum	Relative Humidity 95% without Condensation
Reverse	Polarity Protection Internal Protection

3. Product Information

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Technical specifications for 170AAI03000

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Description

For applications requiring precise analog data handling, the 170AAI03000 from Schneider Electric presents an analog input base specifically developed for the Modicon Momentum series. This device features eight channels configured for differential analog inputs, accommodating complex measurements with accuracy. With a data format of full 16 bits signed integers, it ensures capable data representation.

The conversion time is set at 12 milliseconds, enabling rapid processing of signal changes. Isolation ratings enhance operation and safety, providing 200 volts DC isolation between channels for one minute, while maintaining 500 volts AC between the channels and both ground and bus connections for one minute as well.

Temperature is a critical performance factor. This analog input base can function within a temperature range from 0 degrees Celsius to 60 degrees Celsius, and it withstands storage temperatures spanning from -40 degrees Celsius to 85 degrees Celsius. Designed for environments with high humidity, it can tolerate maximum relative humidity levels of 95% without condensing.

Further enhancing its resilience, the module incorporates internal protection against reverse polarity, safeguarding against wiring errors. With these specifications, the Schneider Electric 170AAI03000 provides a reliable solution for analog input needs in diverse industrial applications.

Range of Product

Modicon Momentum automation platform

Product or Component Type

Analogue input base

Analogue input number

8

Complementary

Data format

Full 16 bits signed

Reverse polarity protection

Internal

Height

4.9 in (125 mm)

Width

5.6 in (141.5 mm)

Depth

1.9 in (47.5 mm)

Net Weight

0.474 lb(US) (0.215 kg)

Environment

Protective treatment

TC

Marking

CE

Ordering and shipping details

Category

US1PC3118206

Discount Schedule

PC31
GTIN
3595861147683
Returnability
Yes
Country of origin
ID
Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
2.165 in (5.500 cm)
Package 1 Width
7.087 in (18.000 cm)
Package 1 Length
10.236 in (26.000 cm)
Package weight(Lbs)
14.109 oz (400.000 g)