

Schneider Series Service Manual

170AAI52040

1. Description

The Schneider Electric 170AAI52040 is an analog input base that supports four differential channels. This device is part of the Modicon Momentum series and offers robust specifications for industrial applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Momentum
Part	Number 170AAI52040
EAN	3389110886498
Weight	1.00 lbs (0.45 kg)
Product	Analog Input Base
Number	of Channels 4 Channels
Analog	Input Type Differential
Data	Format Full 16 Bits Signed
Update	Time 500 ms
Isolation	Between Channels 400V DC for 1 Minute
Isolation	Between Channels and Ground 500V AC for 1 Minute
Isolation	Between Channels And Bus 500 Volts for 1 Minute
Operating	Temperature Range 0°C to 60°C
Storage	Temperature Range -40°C to 85°C
Reverse	Polarity Protection Internal Protection
Maximum	Relative Humidity 95% Without Condensation
Description	
The	analog input base, designated as the Schneider Electric 170AAI52040, is designed for effective signal acquisition in industrial environments. It comprises four channels that use differential analog input for enhanced accuracy. This base coherently processes data in a full 16-bit signed format, facilitating higher resolution for input values. Data updates occur every 500

3. Product Information

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Technical specifications for 170AAI52040	
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Maximum Relative Humidity 95% Without Condensation	
Description	
The analog input base, designated as the Schneider Electric 170AAI52040, is designed for effective signal acquisition in industrial environments. It comprises four channels that use differential analog input for enhanced accuracy. This base coherently processes data in a full 16-bit signed format, facilitating higher resolution for input values. Data updates occur every 500 milliseconds, making it suitable for applications that require timely responses.	
For electrical safety, the 170AAI52040 employs several layers of isolation. Each channel has 400V DC isolation for a duration of one minute, ensuring stable operation under varying electrical conditions. Additionally, it provides strong isolation of 500V AC between each channel and ground, as well as between the channels and the bus. This robust insulation guarantees reliable performance in complex systems.	
The temperature range for operational use is between 0°C and 60°C, with capabilities for storage between -40°C and 85°C. This wide range allows the device to function reliably in diverse environmental conditions. Moreover, the analog input base includes internal reverse polarity protection, enhancing its resilience against electrical mishaps. It accommodates a maximum relative humidity of 95% without condensation, making it suitable for various industrial applications.	
Range of Product	
Modicon Momentum automation platform	
Product or Component Type	
Analogue input base	
Analogue input number	
4	
Complementary	
Data format	
Full 16 bits signed	
Update time	
500 ms	
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
3389110886498
Returnability
Yes
Country of origin
ID