

Schneider 170AAI52040 Manual

Brand	Schneider
Product Series	Schneider
Product Type	Differential

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.

Technical specifications for 170AAI52040

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 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

www.AutoDCSTech.com

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