

Schneider  Series Service Manual

172JNN21032

1. Description

The Schneider Electric 172JNN21032 is a serial link adapter module designed for integration within the Modicon Momentum series. Operating on a supply voltage of 5 volts DC, it requires a current of 700 milliamperes at 12 volts DC, making it suitable for different control applications.

2. Specifications

| Specification | Value                                                             |
|---------------|-------------------------------------------------------------------|
| Manufacturer  | Schneider Electric                                                |
| Product       | Type Serial Link Adapter Module                                   |
| Product       | Line Modicon Momentum                                             |
| Part          | Number 172JNN21032                                                |
| Weight        | 1.00 lbs (0.45 kg)                                                |
| Rated         | Supply Voltage 5 Volts DC                                         |
| Current       | Consumption 700 milliamperes at 12 Volts DC                       |
| Ambient       | Operating Temperature 0 to 60°C (in a non-condensing environment) |
| Protection    | Class IP20                                                        |
| Battery       | Type Lithium battery                                              |
| Storage       | Temperature -40 to 85°C (in a non-condensing environment)         |
| Battery       | Life Span Approximately 5 years                                   |
| Type          | of Communication Port RS-485 or RS-232 port                       |
| Electrical    | Connection Type One 9-pin D-shell Modbus Plus connector           |
| Coating       | Type Conformal coating                                            |
| Status        | Indicators One communication LED                                  |
| Operating     | Altitude Less than 6,561 feet (2,000 meters)                      |

3. Product Information

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Technical specifications for 172JNN21032

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Product Line Modicon Momentum

Part Number 172JNN21032

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Battery Type Lithium battery

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Battery Life Span Approximately 5 years

Type of Communication Port RS-485 or RS-232 port

Electrical Connection Type One 9-pin D-shell Modbus Plus connector

Coating Type Conformal coating

Status Indicators One communication LED

Operating Altitude Less than 6,561 feet (2,000 meters)

Description

The 172JNN21032 from Schneider Electric serves as a serial link adapter module within the Modicon Momentum line. Designed to work with a rated supply voltage of 5 Volts DC, it has a current consumption of 700 milliamperes at a voltage of 12 Volts DC. This component is capable of operating efficiently in an ambient temperature range between 0 and 60°C, provided it is kept in a non-condensing environment.

Engineered with a protection class rating of IP20, this module is suited for applications where exposure to dust and moisture is limited. It relies on a lithium battery, which has an estimated lifespan of around five years, enhancing its longevity. The unit also maintains a storage temperature range of -40 to 85°C which makes it adaptable for various conditions.

Communication is facilitated through RS-485 or RS-232 ports, utilizing a dedicated electrical connection via a 9-pin D-shell Modbus Plus connector. Visual status is indicated by a communication LED that helps users monitor its operational state. The unit is treated with conformal coating, providing additional protection to electronic components. With dimensions measuring 0.98 inches tall, 5.63 inches wide, and 2.37 inches deep, it is lightweight at just 0.19 pounds. Additionally, it is certified for operation at altitudes under 6,561 feet (2,000 meters), ensuring reliable performance even in elevated conditions.

Range of product

Modicon Momentum automation platform

Product or component type

Serial link option adaptor

Number of port

1

Communication port type

Single

Complementary

[Us] rated supply voltage

5 V DC

Input voltage tolerance

+/- 5 %

Supply

Via I/O base

Clock drift

+/- 13 s/day accuracy

Battery type

Lithium battery - autonomy: < 30 day after the battery low indication at 40 °C

Battery size

2/3 AA

Battery life

5 year(s)

Communication port support

RS232 or RS485 serial link selectable

Electrical connection

1 connector D-shell with 9 pins for Modbus Plus connection

Material

Lexan

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Marking  
CE  
Local signalling  
1 LED for communication  
Current consumption  
700 mA at 12 V DC  
Height  
25 mm  
Width  
143.1 mm  
Depth  
60.06 mm  
Module format  
Standard  
Net weight  
85.05 g  
Environment  
Dielectric strength  
500 V DC  
Standards  
IEC 529  
Product certifications  
UL  
CSA  
NEMA 250 type 1  
IP degree of protection  
IP20 conforming to IEC 529  
Protective treatment  
Conformal coating Humiseal 1A33  
TC  
Shock resistance  
+/- 15 gn 11 ms half sine wave acceleration  
Vibration resistance  
1 gn (f = 57...150 Hz)  
Amplitude of sinusoidal vibration  
0.075 mm 10...57 Hz  
Resistance to electrostatic discharge  
8 kV on air conforming to IEC 801-2  
Resistance to electromagnetic fields  
10 V/m 80...1000 MHz conforming to IEC 801-3  
Ambient air temperature for operation  
0...60 °C  
Ambient air temperature for storage  
-40...85 °C  
Relative humidity  
5...95 % without condensation  
Operating altitude  
≤ 2000 m  
Packing Units  
Unit Type of Package 1  
PCE  
Number of Units in Package 1  
1  
Package 1 Height  
7.0 cm  
Package 1 Width  
11.0 cm  
Package 1 Length  
21.0 cm

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Package 1 Weight  
227.0 g  
Unit Type of Package 2  
S03  
Number of Units in Package 2  
12  
Package 2 Height  
30 cm  
Package 2 Width  
30 cm  
Package 2 Length  
40 cm  
Package 2 Weight  
3.239 kg

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