

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)

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Technical specifications for 172JNN21032

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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

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

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