

Schneider Series Service Manual

172JNN21032C

1. Description

The Schneider Electric 172JNN21032C is a serial link option adaptor designed for versatile communication. This unit supports RS232 and RS485 serial links, offering flexibility for various applications in the Modicon Momentum series.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Serial Link Option Adaptor
Product	Line Modicon Momentum
Part	Number 172JNN21032C
Communication	Port RS232 or RS485 serial link selectable
Battery	Lithium 2/3 AA, 5-year life
Battery	Autonomy < 30 days after low battery indication at 40°C
Current	Consumption 700 mA at 12 V DC
Dielectric	Strength 500 V DC
Local	Signaling 1 LED for communication status
Height	0.98 in (25 mm)
Environmental	Compliance IP degree of protection (IEC 529)
Certifications	UL, CUL, CE, FM
Standards	CSA, NEMA 250 Type 1
Product	Approval CE, UL, CUL, CSA, FM
Operating	Temperature Typically 0°C to 60°C

3. Product Information

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Technical specifications for 172JNN21032C

Manufacturer Schneider Electric

Product Type Serial Link Option Adaptor

Product Line Modicon Momentum

Part Number 172JNN21032C

Communication Port RS232 or RS485 serial link selectable

Battery Lithium 2/3 AA, 5-year life

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Local Signaling 1 LED for communication status

Height 0.98 in (25 mm)

Environmental Compliance IP degree of protection (IEC 529)

Certifications UL, CUL, CE, FM

Standards CSA, NEMA 250 Type 1

Product Approval CE, UL, CUL, CSA, FM

Operating Temperature Typically 0°C to 60°C

Description

The 172JNN21032C from Schneider Electric serves as a serial link option adaptor within the Modicon Momentum range. Designed to facilitate flexible communication, it allows users to select between RS232 and RS485 serial links. Reliability is enhanced with a lithium 2/3 AA battery that ensures a usable life of five years. However, users should note that after receiving a low battery warning at 40°C, the device will typically maintain battery autonomy for less than 30 days.

The current consumption rated at 700 mA while operating at 12 V DC indicates the energy needs of this adaptor. Additionally, it boasts a dielectric strength of 500 V DC, reinforcing its reliability in industrial settings. The adaptor features a single LED indicator that provides real-time communication status, enhancing operational monitoring.

Weighing approximately 85.05 grams and standing 0.98 inches (25 mm) in height, this compact adaptor is designed for ease of integration into various systems. Its rating for environmental compliance is based on the IP degree of protection as per IEC 529, ensuring durability.

The 172JNN21032C has obtained multiple certifications, including UL, CUL, CE, and FM, confirming its compliance with industry standards. This device adheres to CSA and NEMA 250 Type 1 standards, underscoring its suitability for a range of applications and environments. Operating temperature typically ranges from 0°C to 60°C, allowing for reliable performance in various 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 < 30 day after the battery low indication 104 °F (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 9 pins for Modbus Plus connection

Material

Lexan

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Marking
CE
Local signalling
1 LED for communication
Current consumption
700 mA 12 V DC
Height
1.0 in (25 mm)
Width
5.6 in (143.1 mm)
Depth
2.36 in (60.06 mm)
Module format
Standard
Net Weight
3.00 oz (85.05 g)
Environment
Dielectric strength
500 V DC
Standards
IEC 529
Product Certifications
CSA
UL
NEMA 250 type 1
IP degree of protection
IP20 conforming to IEC 529
Protective treatment
TC
Conformal coating Humiseal 1A33
Shock resistance
+/- 15 gn 11 ms half sine wave acceleration
Vibration resistance
1 gn 57...150 Hz
Amplitude of sinusoidal vibration
0.075 mm 10...57 Hz
Resistance to electrostatic discharge
8 kV on air IEC 801-2
Resistance to electromagnetic fields
9.1 V/m (10 V/m) 80...1000 MHz IEC 801-3
Ambient Air Temperature for Operation
32...140 °F (0...60 °C)
Ambient Air Temperature for Storage
-40...185 °F (-40...85 °C)
Relative Humidity
5...95 % without condensation
Operating altitude
<= 6561.68 ft (2000 m)
Ordering and shipping details
Category
18206-MOMENTUM PROCESSORS,I/O BASES,CONN.
Discount Schedule
PC31
GTIN
3595863798869
Returnability
No
Country of origin
FR

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Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
2.8 in (7.0 cm)
Package 1 Width
4.3 in (11.0 cm)
Package 1 Length
8.3 in (21.0 cm)
Package weight(Lbs)
8.007 oz (227.0 g)

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