

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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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

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

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)