

Schneider Series Service Manual

140NOE77100C

1. Description

The 140NOE77100C Ethernet module from the Schneider Electric Modicon Quantum series offers a reliable connectivity solution. It features a Class B20 web server and supports Ethernet Modbus TCP/IP communication protocol at transmission rates of 10/100 Mbit/s.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Ethernet module
Product	Line Modicon Quantum
Part	Number 140NOE77100C
EAN	3595860034311
Web	Server Class B20
Concept	Transparent ready
Communication	Port Protocol Ethernet Modbus TCP/IP
Transmission	Rate 10/100 Mbit/s
Marking	CE
Supply	Via the power supply of the rack
Current	Consumption 750 mA, 5 V DC
Format	Standard
Protection	Class IP20
Certifications	UL 508, cUL
Ambient	Temperature 0 to 60 °C
Humidity	95 % without condensation
Protective	Treatment Conformal coating

3. Product Information

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Technical specifications for 140NOE77100C

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Product Type Ethernet module

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Part Number 140NOE77100C

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Web Server Class B20

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Communication Port Protocol Ethernet Modbus TCP/IP

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Supply Via the power supply of the rack

Current Consumption 750 mA, 5 V DC

Format Standard

Protection Class IP20

Certifications UL 508, cUL

Ambient Temperature 0 to 60 °C

Humidity 95 % without condensation

Protective Treatment Conformal coating

Description

The 140NOE77100C is an Ethernet module belonging to Schneider Electric's Modicon Quantum series. This component provides enhanced network capabilities, facilitating communication through the Ethernet Modbus TCP/IP protocol. It operates at data transmission rates of either 10 or 100 Mbit/s, ensuring efficient connectivity for various applications. The module features a Class B20 web server, allowing for straightforward interface with web-based applications.

With a compact design, the Ethernet module weighs approximately 0.345 kg and has a standard format for easy installation. It requires a 5 V DC power supply sourced from the rack to function properly, with a current consumption of 750 mA. The device is rated IP20 for protection, making it suitable for indoor environments where exposure to elements is minimal. Temperature performance is within an operational range of 0 to 60 °C, enabling use in standard industrial settings. In terms of humidity, the 140NOE77100C can handle levels up to 95% without any condensation, which is crucial for maintaining performance in humid conditions. Furthermore, it is coated with a conformal treatment for added durability against environmental factors. This module is CE marked and certified by UL 508 and cUL, confirming its compliance with recognized safety standards.

Range of Product

Modicon Quantum automation platform

Product or Component Type

Ethernet network TCP/IP module

Concept

Transparent Ready

Web server

Class B20

Web services

Data Editor (via PC terminal)

Diagnostics via predefined web pages

Rack viewer

Communication Service

I/O scanning

Modbus TCP messaging

Communication Port Protocol

Ethernet Modbus TCP/IP

Physical interface

MT/RJ - 100BASE-FX fiber optic

RJ45 - 10BASE-T/100BASE-TX twisted pair

Transmission Rate

10/100 Mbit/s

Complementary

Redundancy

Yes hot standby redundant architecture

Supply

Via the power supply of the rack

Marking

CE

Local signalling

1 LED for 10 Mbps or 100 Mbps data rate (10 MB/100 MB)

1 LED for collision detection (Coll)

1 LED for download mode (Kernel)

1 LED for Ethernet module fault (Fault)

1 LED for Ethernet network status (RUN)

1 LED for full-duplex mode (Fduplex)

1 LED for module ready (Ready)

1 LED for network active (Link)

1 LED for rack operational (Active)

1 LED for transmission/reception activity (TxAct/RxAct)

Current consumption

750 mA 5 V DC

Module format

Standard

Net Weight

0.761 lb(US) (0.345 kg)

Environment

IP Degree of Protection

IP20

Product Certifications

cUL

UL 508

Standards

FM Class 1 Division 2

CSA C22.2 No 142

Protective treatment

Conformal coating Humiseal 1A33

Resistance to electrostatic discharge

4 kV contact IEC 801-2

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

95 % without condensation

Operating altitude

<= 14763.78 ft (4500 m)

Ordering and shipping details

Category

18150-QUANTUM CONTROLLERS,HSBY,COMM.

Discount Schedule

PC21

GTIN

3595860034311

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.8 in (4.5 cm)

Package 1 Width

6.3 in (16.0 cm)

Package 1 Length

12.4 in (31.5 cm)

Package weight(Lbs)

18.4 oz (523.0 g)