

Schneider Series Service Manual

140DDI67300C

1. Description

The 140DDI67300C is a discrete input module from Schneider Electric's Modicon Quantum series. It features 24 input channels and operates on a voltage range of 88 to 150 V, with a nominal rating of 125 V DC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Discrete input module
Product	Line Modicon Quantum
Part	Number 140DDI67300C
Input	Channels 24
Input	Voltage 88 to 150 V
Addressing	Requirement 2 input words
Response	Time 0.7 ms
Nominal	Input Voltage 125 V DC
Bus	Current Requirement 200 mA
Logic	Input Positive (sink)
Marking	CE
Format	Standard
Ambient	Temperature 0 to 60 °C
Standards	UL 508, CSA
Protective	Treatment Conformal coating

3. Product Information

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Technical specifications for 140DDI67300C

Manufacturer Schneider Electric

Product Type Discrete input module

Product Line Modicon Quantum

Part Number 140DDI67300C

Input Channels 24

Input Voltage 88 to 150 V

Addressing Requirement 2 input words

Response Time 0.7 ms

Nominal Input Voltage 125 V DC

Bus Current Requirement 200 mA

Logic Input Positive (sink)

Marking CE

Format Standard

Ambient Temperature 0 to 60 °C

Standards UL 508, CSA

Protective Treatment Conformal coating

Description

Schneider Electric presents the 140DDI67300C, a discrete input module that's part of the Modicon Quantum series. This unit is equipped with a total of 24 input channels, providing substantial connectivity for various applications. It can accept an input voltage that ranges from 88 to 150 volts. The nominal input is rated at 125 volts DC, ensuring reliable operation in typical settings.

For addressing, the module needs two input words. It excels in responsiveness, achieving a response time of just 0.7 milliseconds, facilitating quick and efficient input processing. The bus current requirement for this module is 200 milliamperes, allowing for integration within standard systems.

Integration is further simplified with positive (sink) logic inputs, making it compatible with various control scenarios. The module weighs 0.3 kilograms, which aids in easy installation and management within control cabinets. Operable in ambient temperatures between 0 and 60 degrees Celsius, it aligns well with industrial standards. Additionally, it carries necessary certifications with CE marking as well as compliance with UL 508 and CSA standards. To enhance durability, this discrete input module features a conformal coating, providing protection against environmental factors.

Range of Product

Modicon Quantum automation platform

Product or Component Type

Dc discrete input modules

Discrete input number

24

Complementary

Group of channels

3

Logic input

Positive (sink)

Input voltage limits

88...150 V

Input voltage

125 V 2.5 mA DC

Absolute maximum voltage

156.25 V including ripple

Addressing requirement

2 input words

Response Time

0.7 ms from state 0 to state 1

0.7 ms from state 1 to state 0

Isolation between group and bus

2500 Vrms DC for 1 minute

Isolation between group

700 Vrms DC for 1 minute

Power dissipation

1 W + (0.62 x number of points on)

Marking

CE

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Local signalling

1 LED (green) for bus communication is present (Active)

1 LED (red) for external fault detected (F)

24 LEDs (green) for input status

Bus current requirement

200 mA

Module format

Standard

Net Weight

0.7 lb(US) (0.3 kg)

Environment

Protective treatment

Conformal coating Humiseal 1A33

Standards

CSA C22.2 No 142

UL 508

Product Certifications

FM Class 1 Division 2

C-tick

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...2000 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

<= 16404.2 ft (5000 m)

Ordering and shipping details

Category

18155-QUANTUM I/O & POWER SUPPLIES

Discount Schedule

PC21

GTIN

3595861137462

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

6.4 in (16.3 cm)

Package 1 Width

1.8 in (4.5 cm)

Package 1 Length

12.3 in (31.2 cm)

Package weight(Lbs)

16.9 oz (480 g)

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