

Schneider Service Manual

140DDI84100

3. Product Information

Schneider Electric 140DDI84100 Picture

discrete input module Modicon Quantum - 16 I - 10..60 V DC

140DDI84100

Specifications

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

Dc discrete input modules

Discrete input number

16

Complementary

Group of channels

8

Logic input

Positive (sink)

Input voltage limits

10...60 V

Input voltage

12 V 5...10 mA DC

24 V 6...30 mA DC

48 V 2...15 mA DC

60 V 1...5 mA DC

Voltage state 1 guaranteed

11...24 V 24 V +/- 20 %

34...48 V 48 V +/- 20 %

45...60 V 60 V +/- 20 %

9...12 V 12 V +/- 5 %

Voltage state 0 guaranteed

0...1.8 V 12 V +/- 5 %

0...10 V 48 V +/- 20 %

0...5 V 24 V +/- 20 %

0...9 V 60 V +/- 20 %

Absolute maximum voltage

75 V

Addressing requirement

1 input word

Response Time

4 ms from state 0 to state 1

4 ms from state 1 to state 0

Switching frequency

<= 100 Hz

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

Local signalling

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

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

16 LEDs (green) for input status

Bus current requirement

200 mA

Module format

Standard

Net Weight

0.7 lb(US) (0.3 kg)

Environment

Standards

UL 508

CSA C22.2 No 142

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

US1PC2118155

Discount Schedule

PC21

GTIN

3595861000094

Returnability

Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.83 in (4.64 cm)

Package 1 Width

6.55 in (16.64 cm)

Package 1 Length

12.29 in (31.21 cm)

Package weight(Lbs)

0.97 lb(US) (0.44 kg)

Unit Type of Package 2

S03

Number of Units in Package 2

7

Package 2 Height

11.81 in (30 cm)

Package 2 Width

11.81 in (30 cm)

Package 2 Length

15.75 in (40 cm)

Package 2 Weight

8.265 lb(US) (3.749 kg)