

Schneider Service Manual

140DAI54000

3. Product Information

Schneider Electric 140DAI54000

discrete input module Modicon Quantum - 16 I - 115 V AC - 16 channels

140DAI54000

Specifications

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

VAC discrete input modules

Software name

Concept

ProWORX 32

Unity Pro

Discrete input number

16

Complementary

Group of channels

16

Addressing requirement

1 input word

Discrete input voltage

115 V AC

Input current

11.1 mA 57...63 Hz

13.2 mA 47...53 Hz

Voltage state 1 guaranteed

79...132 V AC 57...63 Hz

85...132 V AC 47...53 Hz

Voltage state 0 guaranteed

0...20 V AC 57...63 Hz

0...20 V AC 47...53 Hz

Input impedance

12000 Ohm capacitive 57...63 Hz

14400 Ohm capacitive 47...53 Hz

Network frequency limits

47...63 Hz

Maximum leakage current

2.1 mA

Absolute maximum input

132 V continuous

156 V 10 s

200 V 1 cycle

Response Time

4.9...0.75 ms x line cycle Off-On

7.3...12.3 ms On-Off

Isolation between channels

1780 Vrms for 1 minute

Isolation between channels and bus

1780 Vrms for 1 minute

Bus current requirement

180 mA

Maximum power dissipation in W

5.5 W

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

Marking

CE

Module format

Standard

Net Weight

0.68 lb(US) (0.31 kg)

Environment

Standards

UL 508

CSA C22.2 No 142

Product Certifications

FM Class 1 Division 2

cUL

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

3595861126916

Returnability

Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

6.42 in (16.3 cm)

Package 1 Width

1.77 in (4.5 cm)

Package 1 Length

12.28 in (31.2 cm)

Package weight(Lbs)

15.4 oz (438.0 g)