

Schneider Service Manual

140ACI03000

3. Product Information

Schneider Electric 140ACI03000 Picture

analog input module Modicon Quantum - 8 I multirange

140ACI03000

Specifications

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

Analogue input module

Type of filter

Single pole low pass - 3 dB at 15 Hz +/- 20 %

Complementary

Analogue input number

8

Input type

Differential

Addressing requirement

9 input words

Analogue input resolution

12 bits

Linear measuring range

1...5 V

4...20 mA

Absolute maximum input

50 V DC

25 mA

Input impedance

250 Ohm current +/- 0.01 %

> 20 MOhm voltage

Absolute accuracy error

+/- 0.05 % of full scale

+/- 0.1 % of full scale maximum

Linearity error

+/- 0.04 %

Accuracy drift according to temperature

+/- 0.0025 % of full scale/°C

<= 0.005 % of full scale/°C

Common mode rejection

> - 72 dB 60 Hz

Isolation between channels and bus

1000 V DC

3000 V DC 60 s

Isolation between channels

30 V DC

Update time

5 ms

Fault type

Broken wire 4...20 mA

Undervoltage range 1...5 V

Marking

CE

Local signalling

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

1 LED (red) for external fault

8 LEDs (green) for channel is turned on

8 LEDs (red) for channel fault

Bus current requirement

240 mA

Power dissipation in W

2 W

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

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...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

<= 16404.2 ft (5000 m)

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861126565

Returnability

Yes

Country of origin

US

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.89 in (4.8 cm)

Package 1 Width

6.50 in (16.5 cm)

Package 1 Length

12.20 in (31.0 cm)

Package weight(Lbs)

15.9 oz (450.0 g)