

Schneider Service Manual

140ACI04000

3. Product Information

Schneider Electric 140ACI04000 Picture

analog input module Modicon Quantum - 16 I multirange

140ACI04000

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 34 Hz +/- 25 %

Complementary

Analogue input number

16

Input type

Differential

Addressing requirement

17 input words

Analogue input resolution

0...16000 counts 4...20 mA

0...20000 counts 0...20 mA

0...25000 counts 0...25 mA

0...4095 counts 4...20 mA

Absolute maximum input

30 mA

Input impedance

250 Ohm

Absolute accuracy error

+/- 0.125 % of full scale

Linearity error

+/- 12 µA max 4...20 mA

+/- 6 µA max 0...20 mA

+/- 6 µA max 0...25 mA

+/- 6 µA max 4...20 mA

Accuracy drift according to temperature

+/- 0.0025 % of full scale/°C

<= 0.0050 % of full scale /°C

Common mode rejection

> - 90 dB 60 Hz

Isolation between channels and bus

1780 V AC 60 s

Update time

15 ms 2 wires/4 wires

Fault type

Broken wire 4...20 mA

Marking

CE

Local signalling

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

1 LED (red) for external fault

16 LEDs (green) for channel is turned on

16 LEDs (red) for channel fault

Bus current requirement

360 mA

Power dissipation in W

5 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

3595861147997

Returnability

Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.81 in (4.6 cm)

Package 1 Width

6.50 in (16.5 cm)

Package 1 Length

12.20 in (31.0 cm)

Package weight(Lbs)

15.3 oz (433.0 g)