

Schneider Electric 140AVI03000

analog input module Modicon Quantum - 8 I multirange

140AVI03000

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 847 Hz +/- 20 %

Complementary

Analogue input number

8

Input type

Differential

Addressing requirement

9 input words

Analogue input type

Bipolar current 20 mA

Bipolar voltage +/- 10 V

Bipolar voltage +/- 5 V

Unipolar current 0...20 mA

Unipolar voltage 0...10 V

Unipolar voltage 0...5 V

Analogue input resolution

16 bits +/- 10 V

16 bits +/- 5 V

16 bits 0...10 V

16 bits 0...20 mA

16 bits 0...5 V

16 bits 20 mA

Linear measuring range

(input range) x 1.024 mA

(input range) x 1.024 V

Absolute maximum input

50 V DC

25 mA

Input impedance

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> 20 Ohm voltage
250 MOhm +/- 0.03 %
Absolute accuracy error
+/- 0.03 %
+/- 0.05 % of full scale maximum
Linearity error
+/- 0.008 %
Accuracy drift according to temperature
+/- 0.0015 % of full scale/° C
≤ 0.004 % of full scale /° C
Common mode rejection
> - 80 dB 60 Hz
Isolation between channels and bus
500 Vrms AC 60 s
750 V DC
Isolation between channels
135 Vrms AC
200 V DC
Update time
10 ms
Fault type
Broken wire 4...20 mA
Overtaking scale 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
280 mA
Power dissipation in W
2.2 W
Module format
Standard
Net Weight
0.7 lb(US) (0.3 kg)
Environment
Standards
UL 508

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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
3595861126619
Returnability
Yes
Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
1.97 in (5.000 cm)
Package 1 Width
6.50 in (16.500 cm)
Package 1 Length
12.40 in (31.500 cm)
Package weight(Lbs)
16.226 oz (460.000 g)
Unit Type of Package 2
S03

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Number of Units in Package 2

7

Package 2 Height

11.81 in (30.000 cm)

Package 2 Width

11.81 in (30.000 cm)

Package 2 Length

15.75 in (40.000 cm)

Package 2 Weight

8.144 lb(US) (3.694 kg)



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