Product data sheet

Specifications



analog input module Modicon Quantum - 16 I multirange

140ACI04000

Discontinued on: Dec 31, 2022

To be end-of-service on: Dec 31, 2030

Discontinued - Service only

Product availability: Non-Stock - Not normally stocked in distribution facility

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
Product Weight	0.7 lb(US) (0.3 kg)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	1.8 in (4.6 cm)
Package 1 Width	6.5 in (16.5 cm)
Package 1 Length	12.2 in (31.0 cm)
Package weight(Lbs)	15.3 oz (433.0 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer

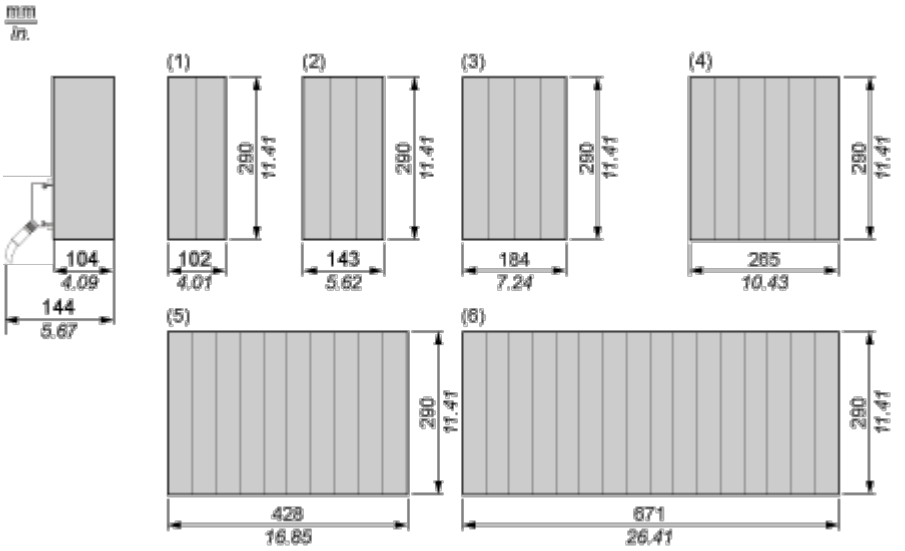
Lifetime extension

Repair	No

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



(1) 2 slots

(2) 3 slots

(3) 4 slots

(4) 6 slots

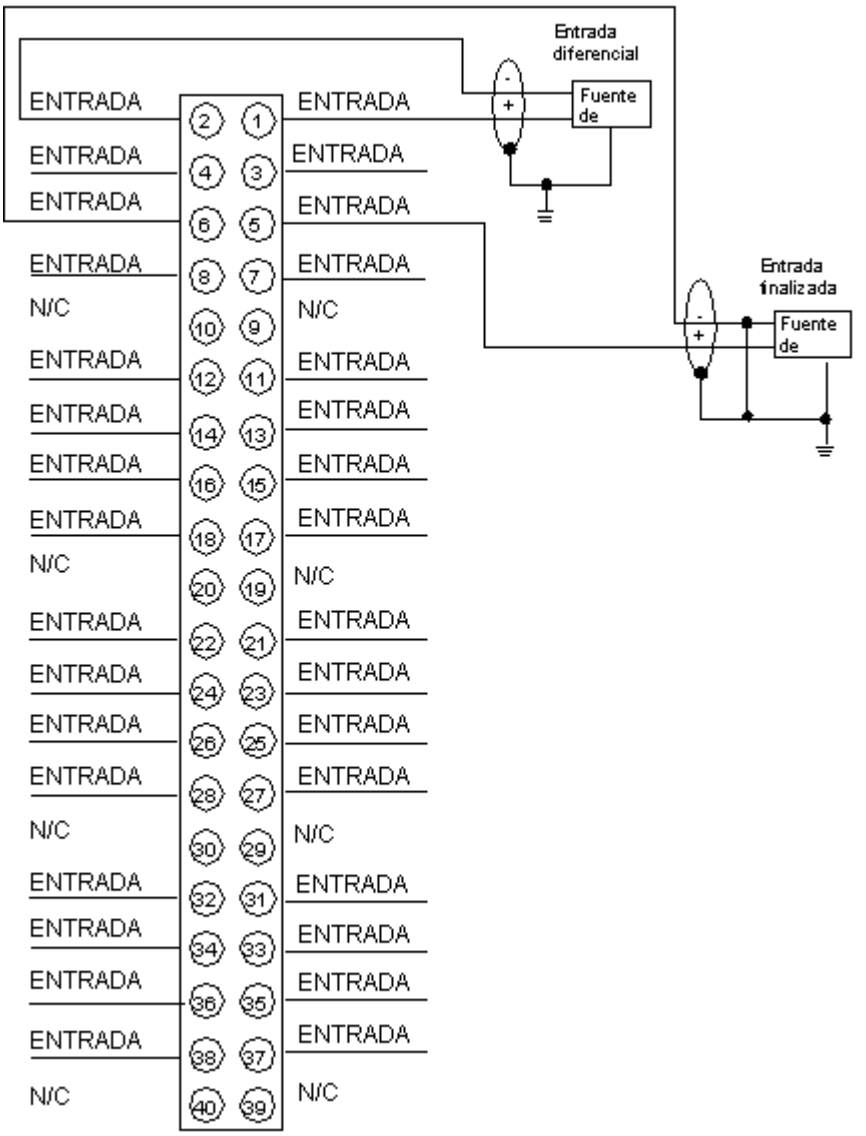
(5) 10 slots

(6) 16 slots

Connections and Schema

High Density Analog Input Module (16-Channel)

Wiring Diagram



N/C Not Connected

The maximum channel to channel working voltage cannot exceed 30 Vdc.