

Product data sheet

Specifications



analog input module Modicon Quantum - 8 I multirange

140ACI03000

⚠ To be discontinued on: 31 December 2022

⚠ To be end-of-service on: 31 December 2030

⚠ To be discontinued

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 for 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	0.3 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 conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	450.0 g
Package 1 Height	4.8 cm
Package 1 width	16.5 cm
Package 1 Length	31 cm
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Weight	3.58 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

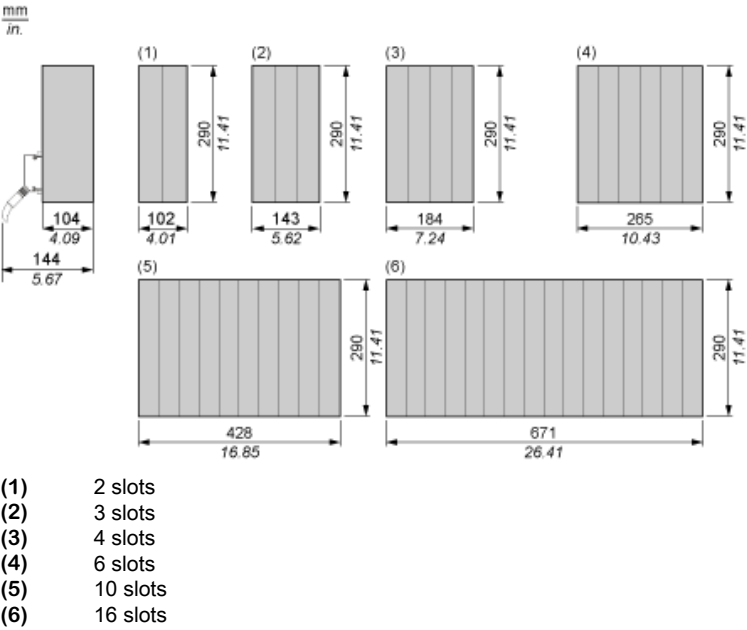
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

Contractual warranty

Warranty	18 months
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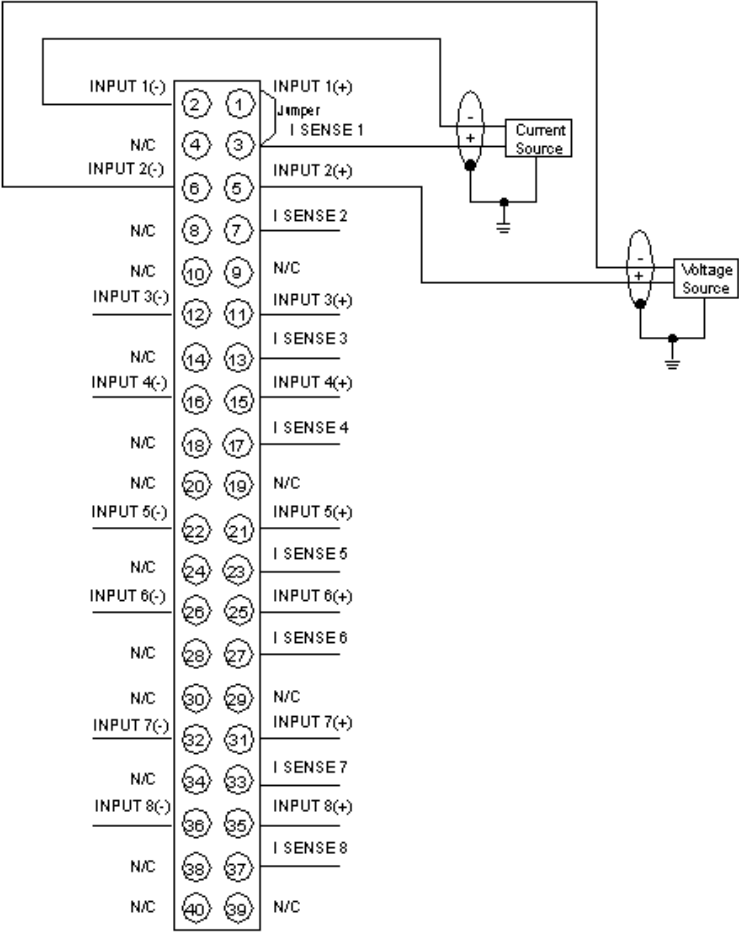
Racks for Modules Mounting

Dimensions of Modules and Racks



Analog Input 8-Channel Unipolar Module

Wiring Diagram



N/C Not Connected
The maximum channel to channel working voltage cannot exceed 30 Vdc.

Recommended replacement(s)

140ACI03000 is replaced by:

1x		isolated analog input module X80 - 8 inputs - high speed BMXAMI0810
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