

# Product datasheet

Specifications



## analog input module Modicon Quantum - 8 I multirange

140AVI03000

⚠ Discontinued on: Jan 15, 2023 AD

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

⚠ 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 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	> 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 for 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

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

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	0.3 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 Height	5.000 cm
Package 1 Width	16.500 cm
Package 1 Length	31.500 cm
Package 1 Weight	460.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	7
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.694 kg

## Contractual warranty

Warranty	18 months
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Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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RoHS/REACH

Well-being performance

✓	Reach Free Of Svhc	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes

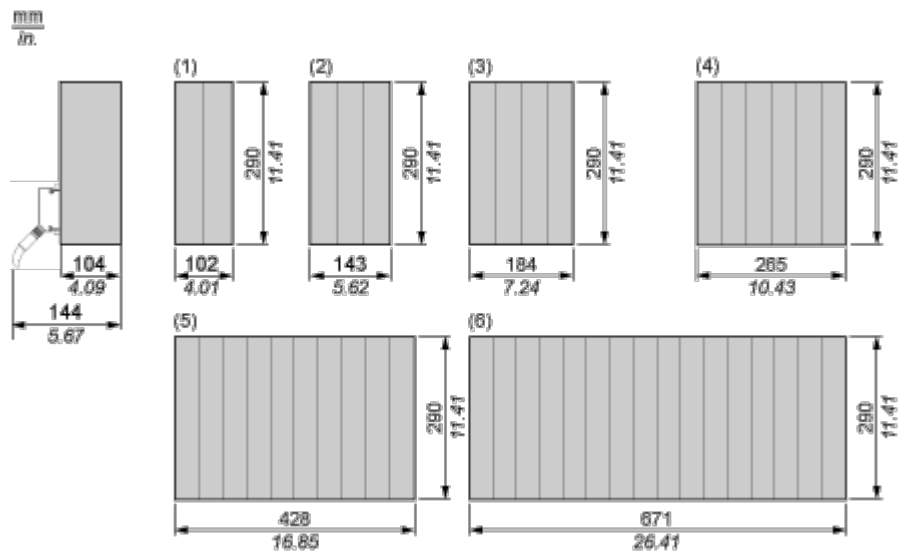
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Circularity Profile	<a href="#">End of Life Information</a>

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

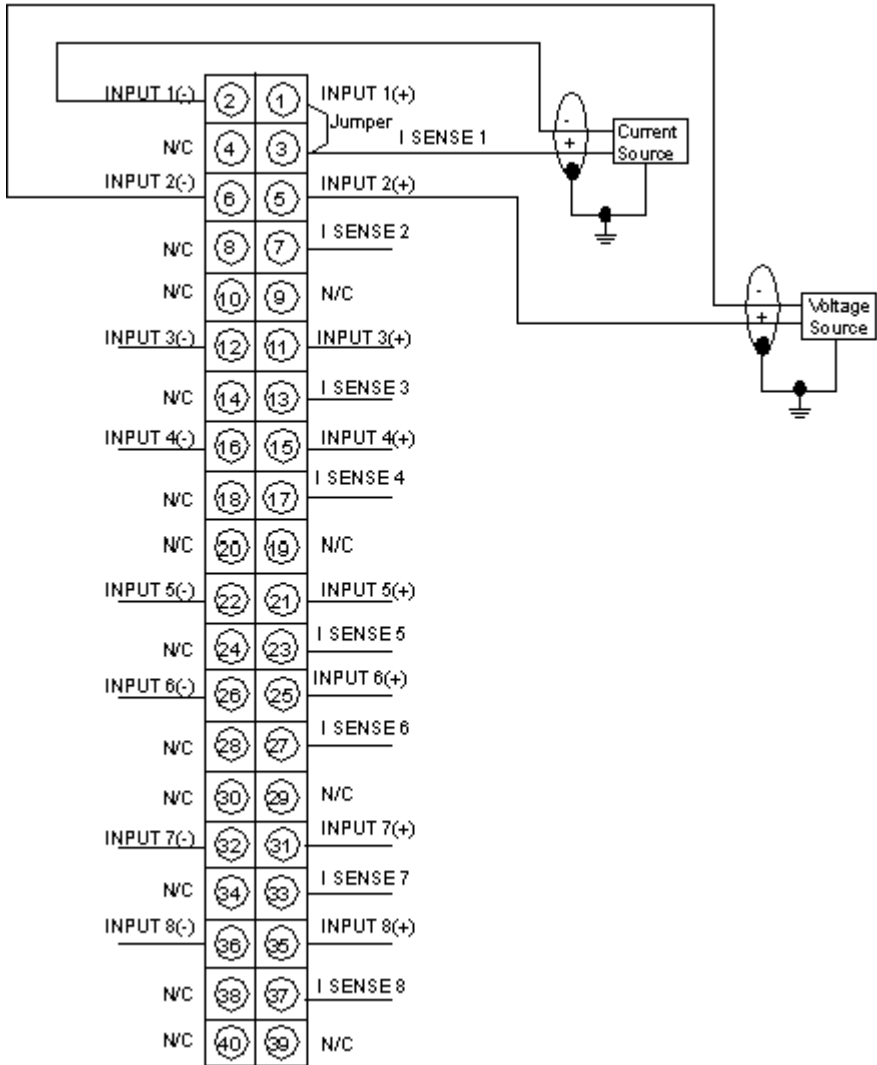


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

Analog Input 8-Channel Bipolar Module

Wiring Diagram



N/C Not Connected