Product datasheet
Characteristics

140ACI03000

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	25 mA 50 V DC 50 V DC
Input impedance	> 20 MOhm voltage 250 Ohm current +/- 0.01 %
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 bus communication is present (Active) 1 LED red external fault 8 LEDs green channel is turned on 8 LEDs red channel fault
Bus current requirement	240 mA
Power dissipation in W	2 W
Module format	Standard
Product weight	0.66 lb(US) (0.3 kg)

Environment

standards	CSA C22.2 No 142 UL 508
product certifications	CUL FM Class 1 Division 2
resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 4 kV contact conforming to IEC 801-2

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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	8 kV on air conforming to IEC 801-2
resistance to electromagnetic fields	9.14 V/yd (10 V/m) 80...1000 MHz conforming to 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)

Offer Sustainability

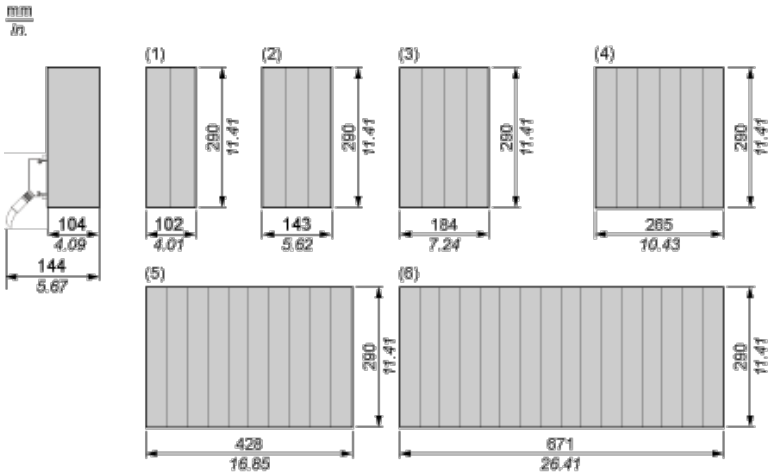
Green Premium product	Green Premium product
Compliant - since 0852 - Schneider Electric declaration of conformity	Compliant - since 0852 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

Contractual warranty

Warranty period	18 months

Racks for Modules Mounting

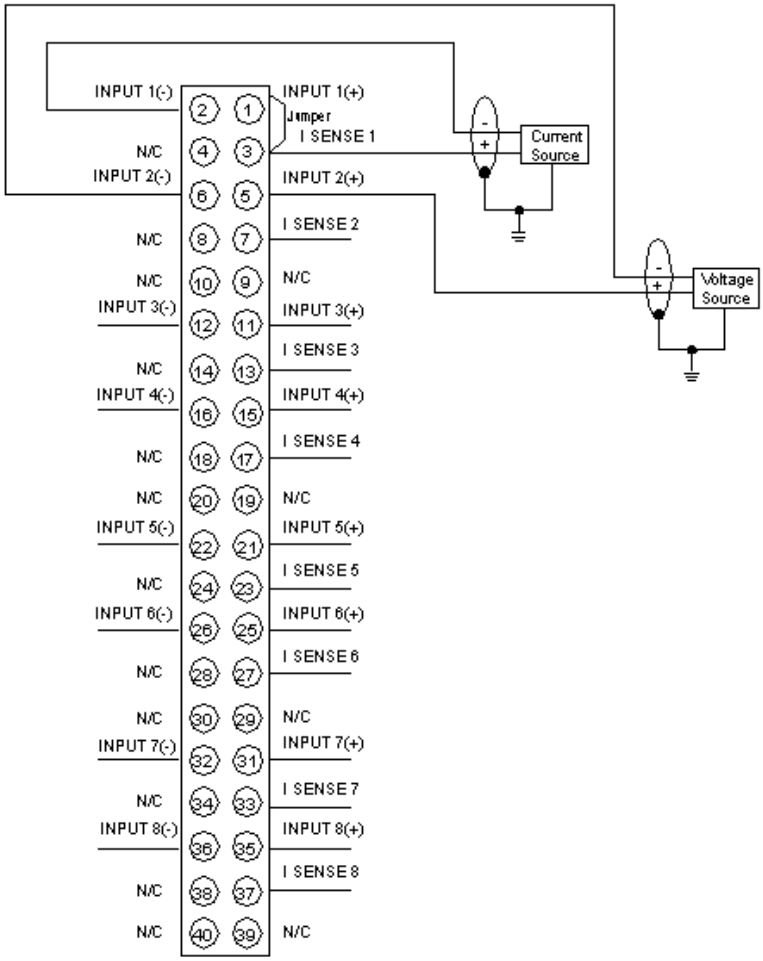
Dimensions of Modules and Racks



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

Analog Input 8-Channel Unipolar Module

Wiring Diagram



N/C Not Connected

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