Product data sheet

Specifications

Green Premium™

discrete input module Modicon Quantum - 16 I - 115 V AC - 16 channels

140DAI54000

Discontinued on: Dec 31, 2022

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

Discontinued

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	VAC discrete input modules
Software Name	Concept ProWORX 32 Unity Pro
Discrete Input Number	16

Complementary

Group Of Channels	16
Addressing Requirement	1 input word
Discrete Input Voltage	115 V AC
Input Current	11.1 mA at 57...63 Hz 13.2 mA at 47...53 Hz
Voltage State 1 Guaranteed	79...132 V AC at 57...63 Hz 85...132 V AC at 47...53 Hz
Voltage State 0 Guaranteed	0...20 V AC at 57...63 Hz 0...20 V AC at 47...53 Hz
Input Impedance	12000 Ohm capacitive at 57...63 Hz 14400 Ohm capacitive at 47...53 Hz
Network Frequency Limits	47…63 Hz
Maximum Leakage Current	2.1 mA
Absolute Maximum Input	132 V continuous 156 V 10 s 200 V 1 cycle
Response Time	4.9...0.75 ms x line cycle Off-On 7.3...12.3 ms On-Off
Isolation Between Channels	1780 Vrms for 1 minute
Isolation Between Channels And Bus	1780 Vrms for 1 minute
Bus Current Requirement	180 mA
Maximum Power Dissipation In W	5.5 W
Local Signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 16 LEDs (green) for input status
Marking	CE
Module Format	Standard

List Price displayed is VAT EXCLUSIVE.

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

Net Weight	0.31 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…2000 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	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	438.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	7
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.968 kg

Contractual warranty

Warranty	18 months

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_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes

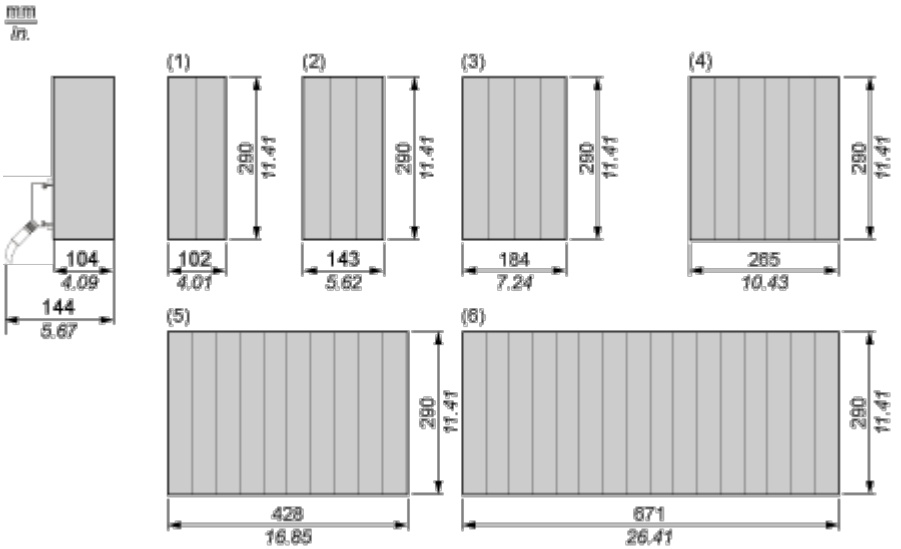
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



(1) 2 slots

(2) 3 slots

(3) 4 slots

(4) 6 slots

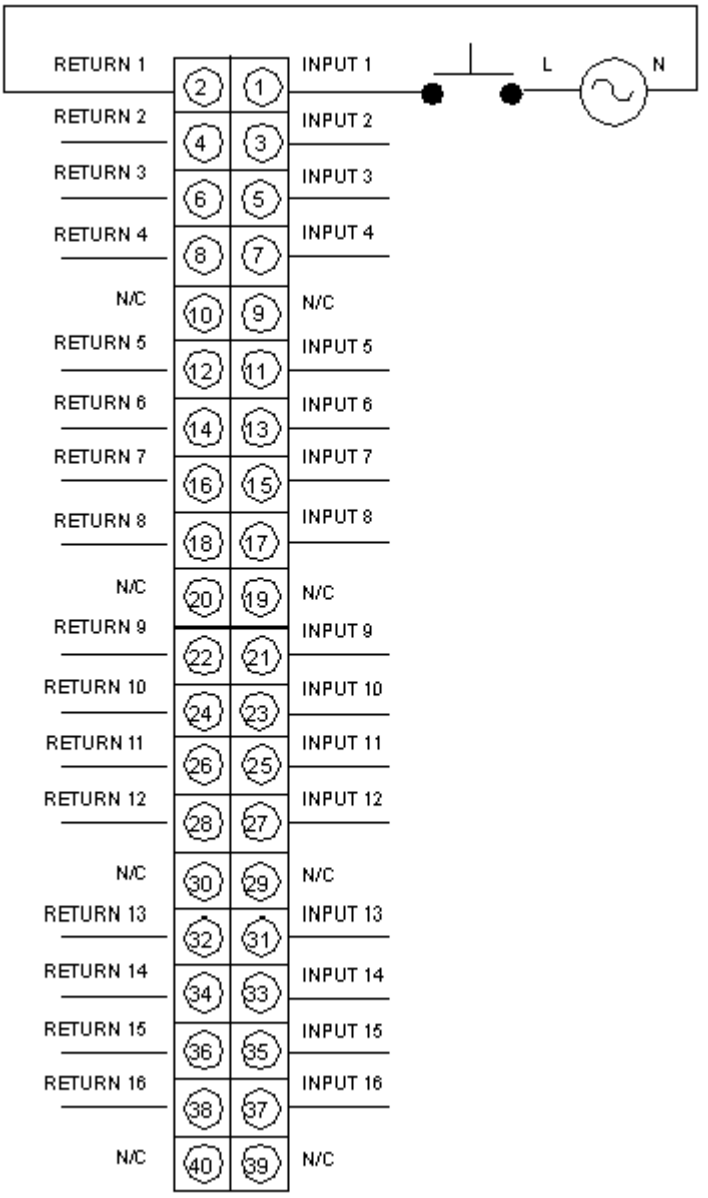
(5) 10 slots

(6) 16 slots

Connections and Schema

115 Vac Discrete Input Module

Wiring Diagram



N/C Not Connected