

# Product data sheet

Specifications



## discrete input module Modicon Quantum -16 inputs - 230 V AC

140DAI74000C

⚠ Discontinued on: Nov 1, 2022

⚠ End-of-service on: Nov 20, 2022

⚠ Discontinued - Service only

### Main

Range of product	Modicon Quantum automation platform
Product or component type	VAC discrete input modules
Software name	Concept Unity Pro ProWORX 32

Discrete input number 16

### Complementary

Group of channels	16
Addressing requirement	1 input word
Discrete input voltage	230 V AC
Input current	11.5 mA 57...63 Hz 9.7 mA 47...53 Hz
Voltage state 1 guaranteed	165...264 V AC 57...63 Hz 175...264 V AC 47...53 Hz
Voltage state 0 guaranteed	0...40 V AC 57...63 Hz 0...40 V AC 47...53 Hz
Input impedance	26500 Ohm capacitive 57...63 Hz 31800 Ohm capacitive 47...53 Hz
Network frequency limits	47...63 Hz
Maximum leakage current	2.6 mA
Absolute maximum input	264 V continuous 300 V 10 s 400 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
Net weight	0.77 lb(US) (0.35 kg)

## Environment

Protective treatment	Conformal coating Humiseal 1A33
Standards	CSA C22.2 No 142 UL 508
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/yd (10 V/m) 80...2000 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	<= 5000 m

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.0 in (5.0 cm)
Package 1 Width	6.5 in (16.5 cm)
Package 1 Length	12.6 in (32.0 cm)
Package 1 Weight	16.0 oz (453.0 g)

## Contractual warranty

Warranty (in months)	18
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## 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](#)

Pro-active compliance (Product out of EU RoHS legal scope)

### Use Longer



#### Lifetime extension

Repair

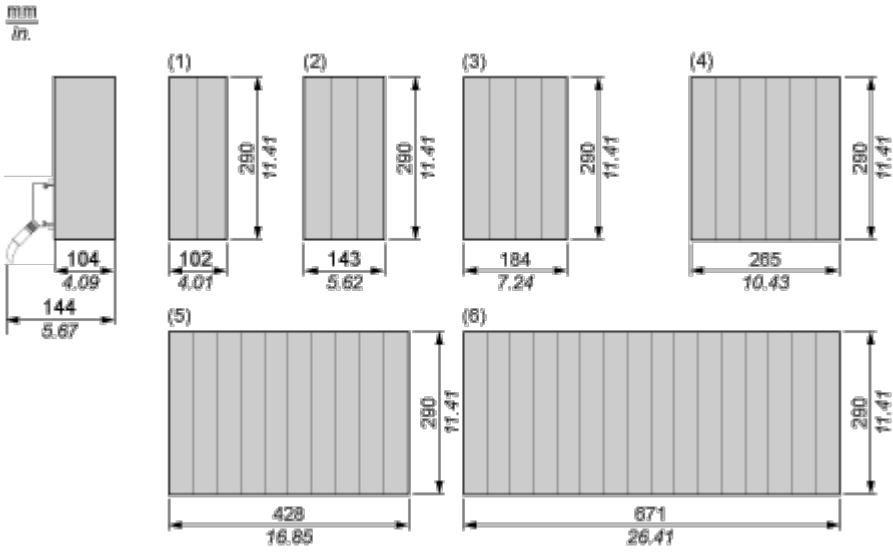
No

Dimensions Drawings

Racks for Modules Mounting

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Dimensions of Modules and Racks

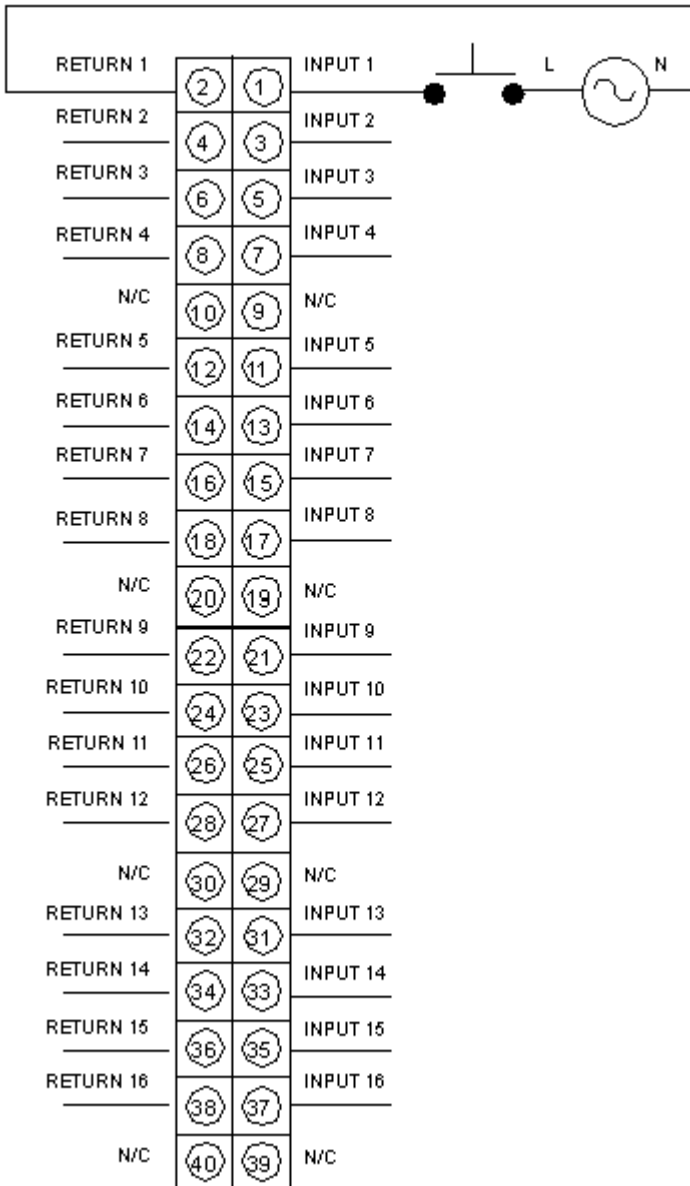


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

230 Vac Discrete Input Module

Wiring Diagram



N/C Not Connected