

Product data sheet

Specifications



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

140DAI54000

! Discontinued on: 31 December 2022

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

! To be discontinued

Product availability : Stock - Normally stocked in distribution facility

Price* : 1,396.10 USD

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 57...63 Hz 13.2 mA 47...53 Hz
Voltage state 1 guaranteed	79...132 V AC 57...63 Hz 85...132 V AC 47...53 Hz
Voltage state 0 guaranteed	0...20 V AC 57...63 Hz 0...20 V AC 47...53 Hz
Input impedance	12000 Ohm capacitive 57...63 Hz 14400 Ohm capacitive 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

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Local signalling	for bus communication is present (Active) 1 LED (green) for external fault detected (F) 1 LED (red) for input status 16 LEDs (green)
Marking	CE
Module format	Standard
Net Weight	0.68 lb(US) (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 IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	9.14 V/m (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	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	18155-QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
GTIN	3595861126916
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.42 in (16.3 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	12.28 in (31.2 cm)
Package 1 Weight	15.45 oz (438.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	6.54 lb(US) (2.968 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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

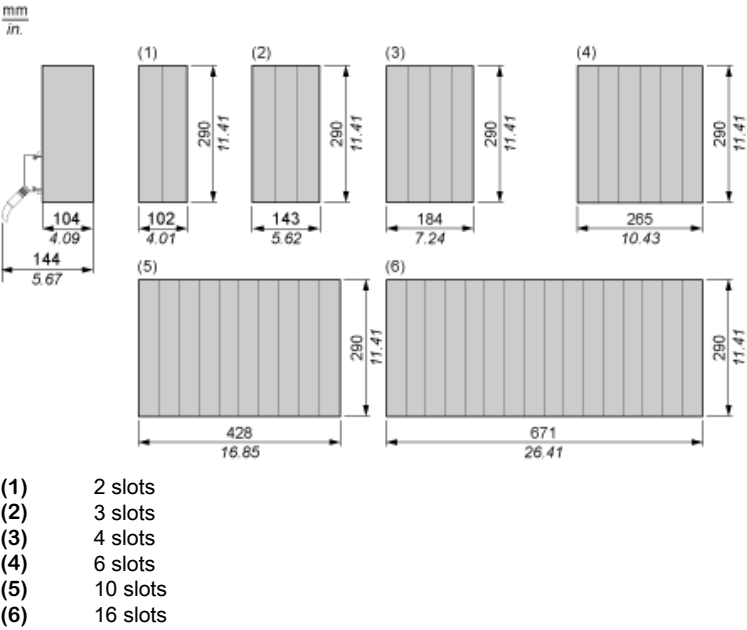
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information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

Contractual warranty

Warranty	18 months
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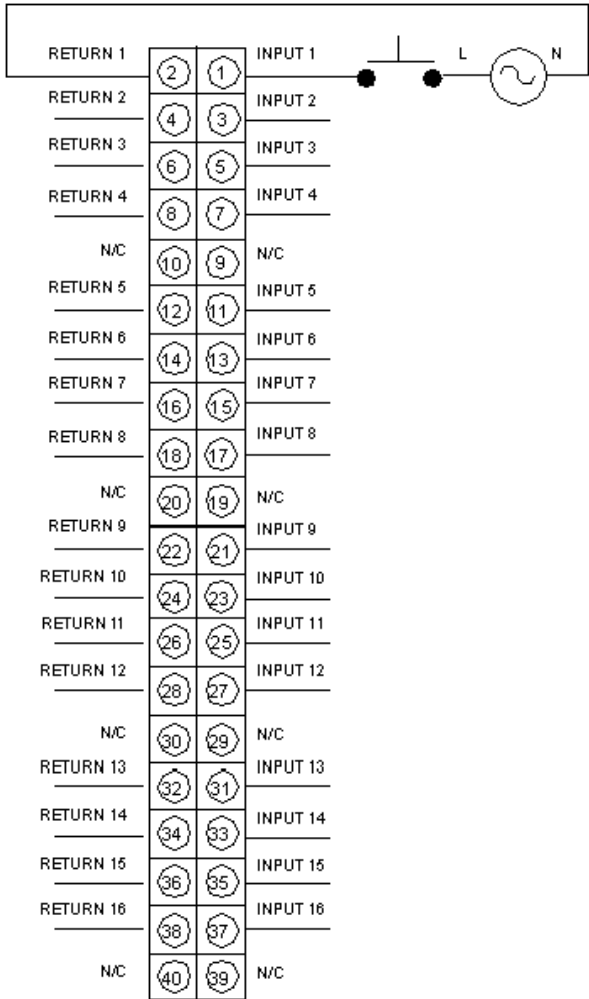
Racks for Modules Mounting

Dimensions of Modules and Racks



115 Vac Discrete Input Module

Wiring Diagram



N/C Not Connected

Recommended replacement(s)