

Product datasheet

Specifications



discrete input module Modicon Quantum - 32 inputs - 48 V AC

140DAI45300C

⚠ Discontinued on: 3 Sept 2022

⚠ To be end-of-service on: 31 Dec 2029

⚠ Discontinued - Service only

Main

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

Complementary

Group Of Channels	4
Addressing Requirement	2 input words
Discrete Input Voltage	48 V AC
Input Current	11.7 mA at 57...63 Hz 9.8 mA at 47...53 Hz
Voltage State 1 Guaranteed	29...56 V AC at 57...63 Hz 34...56 V AC at 47...53 Hz
Voltage State 0 Guaranteed	0...10 V AC at 57...63 Hz 0...10 V AC at 47...53 Hz
Input Impedance	5600 Ohm capacitive at 57...63 Hz 6800 Ohm capacitive at 47...53 Hz
Network Frequency Limits	47...63 Hz
Maximum Leakage Current	1.7 mA
Absolute Maximum Input	100 V 1 cycle 56 V continuous 63 V 10 s
Response Time	4.9...0.75 ms x line cycle Off-On 7.3...12.3 ms On-Off
Isolation Between Group	1780 Vrms for 1 minute
Isolation Between Group And Bus	1780 Vrms for 1 minute
Bus Current Requirement	250 mA
Maximum Power Dissipation In W	10.9 W
Local Signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 32 LEDs (green) for input status
Marking	CE
Module Format	Standard
Net Weight	0.3 kg

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

Environment

Protective Treatment	Conformal coating Humiseal 1A33
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 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	475.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.376 kg

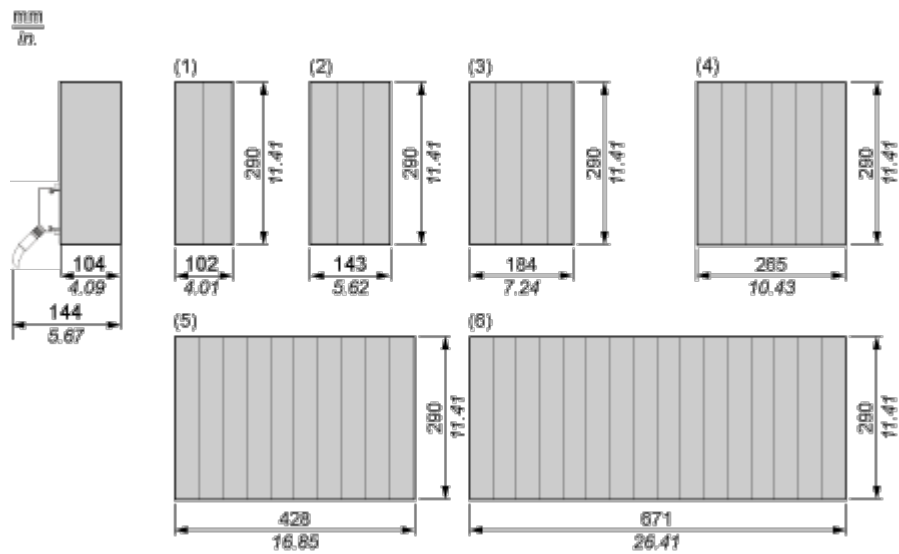
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

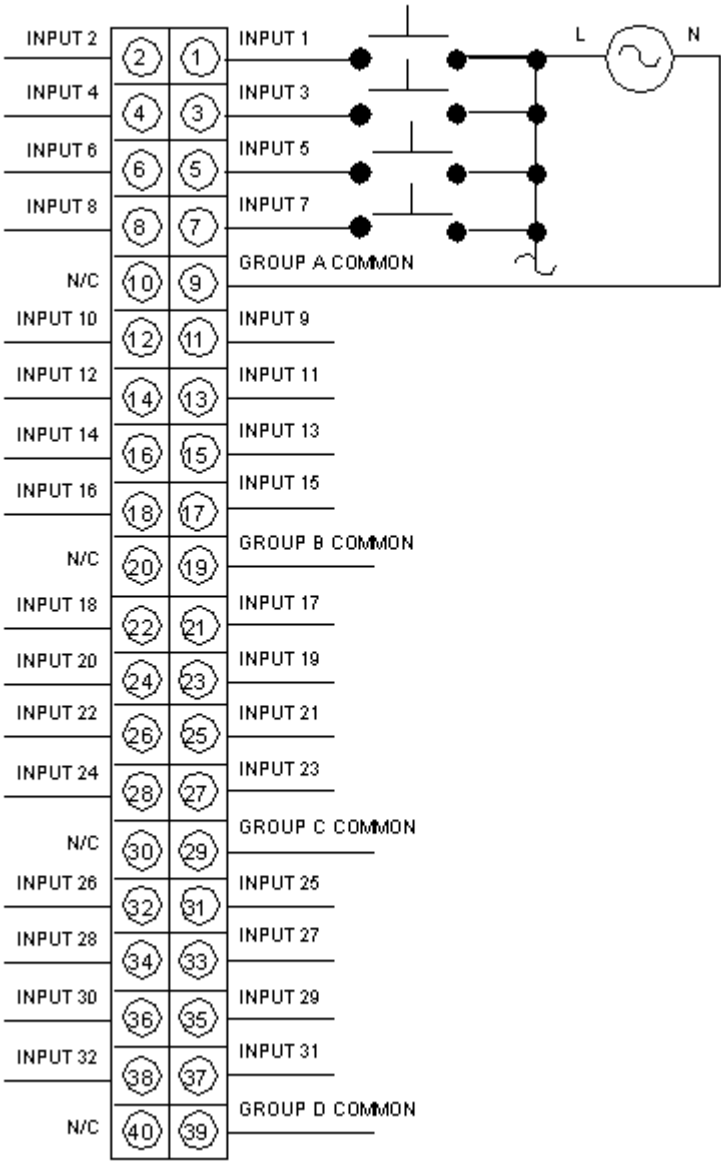


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

48 Vac Discrete Input Module

Wiring Diagram



N/C Not Connected