

# Product data sheet

Specifications



## discrete input module Modicon Quantum - 16 I - 24 V AC

140DAI34000

! To be discontinued on: 31 December 2022

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

! To be 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	24 V AC
Input current	12 mA at 57...63 Hz 10.7 mA at 47...53 Hz
Voltage state 1 guaranteed	16...30 V AC at 57...63 Hz 18...30 V AC at 47...53 Hz
Voltage state 0 guaranteed	0...6 V at 57...63 Hz 0...5 V at 47...53 Hz
Input impedance	2600 Ohm capacitive at 57...63 Hz 3100 Ohm capacitive at 47...53 Hz
Network frequency limits	47...63 Hz
Maximum leakage current	1.9 mA
Absolute maximum input	30 V continuous 32 V 10 s 50 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	0.3 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 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 Weight	443.0 g
Package 1 Height	16.3 cm
Package 1 width	4.5 cm
Package 1 Length	31.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Weight	878.0 g
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

---

**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](http://www.P65Warnings.ca.gov)

---

**Contractual warranty**

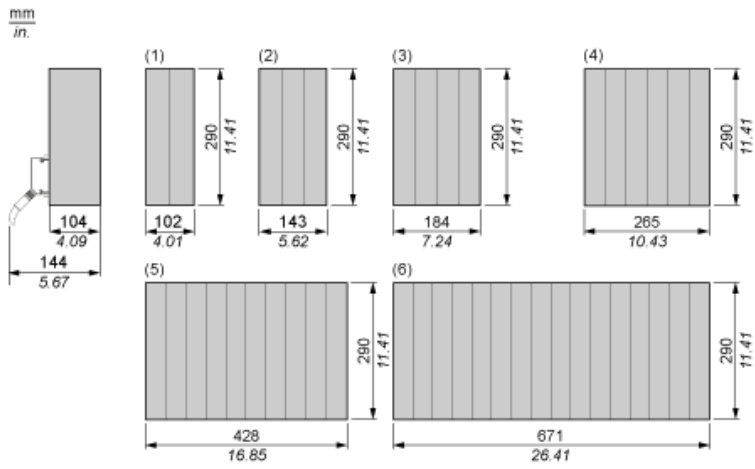
---

<b>Warranty</b>	18 months
-----------------	-----------

---

**Racks for Modules Mounting**

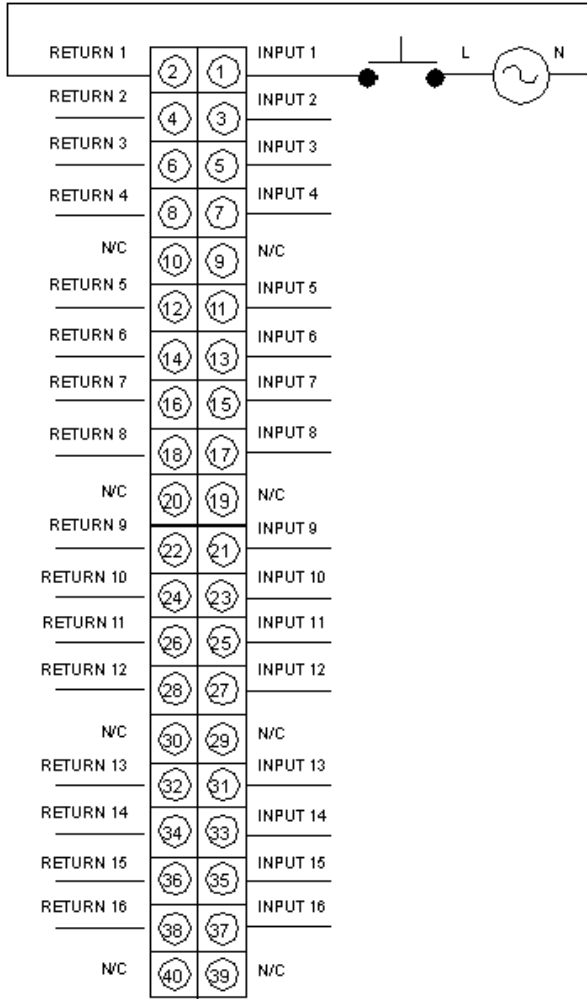
**Dimensions of Modules and Racks**



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

**24 Vac Discrete Input Module**

**Wiring Diagram**



**N/C** Not Connected

**Recommended replacement(s)**

140DAI34000 is replaced by:

1x



discrete input module X80 - 16 inputs - 24V AC/DC positive or negative  
BMXDAI1602